Home An Argus Specalist Publication Completing No. 67 June 19-25, 1984 WEEKLY 45p

Win

a flight simulator from

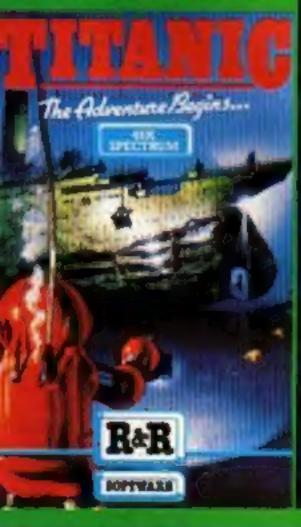
Hewson in our £1,500 competition

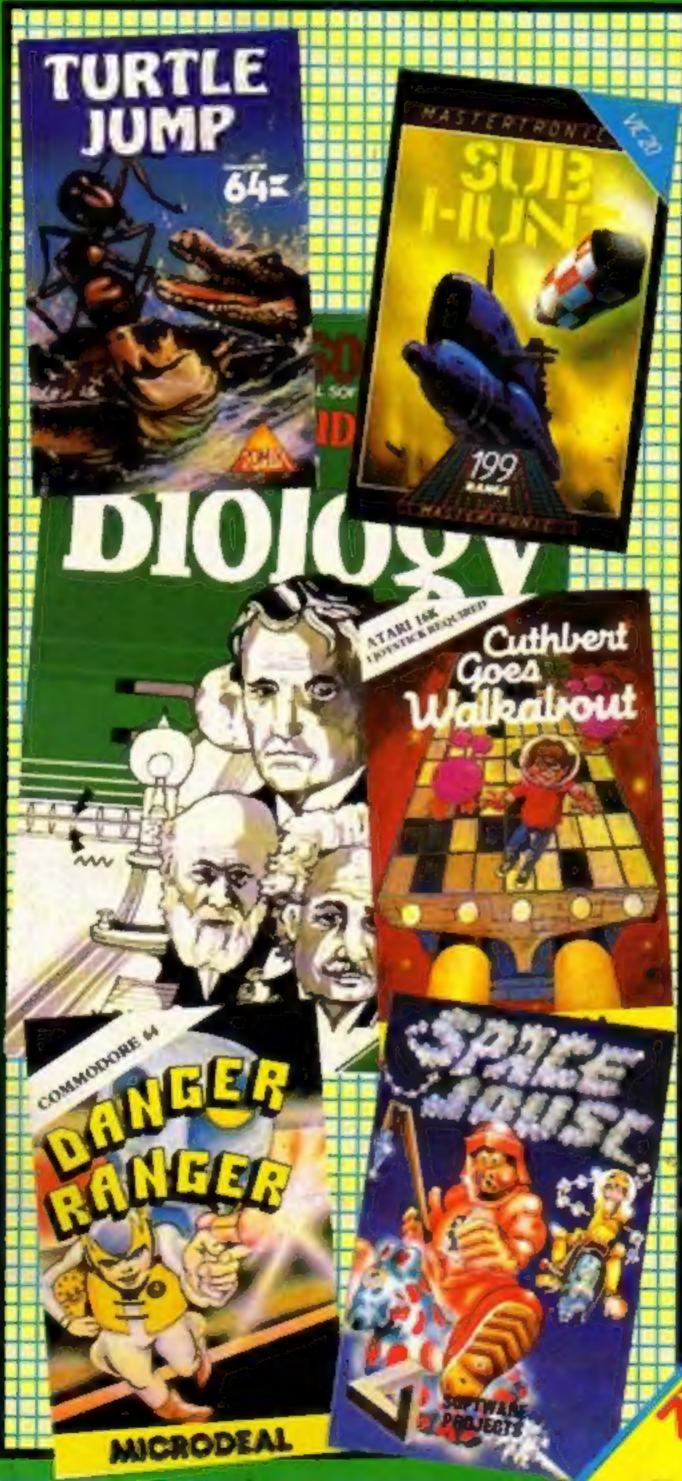
commodore show: first full report, including the new micros

Software reviews for: commodore 64, Spectrum, Dragon, VIC-20, Oric and Atari

type in for: VIC-20, TI, Commodore 64

PLUS news, U.S. Scene, your letters, One Man's View, latest software charts





Battle of the giants

Sales of Commodore computers is claimed to have exceeded those of Sinclair in March, according to a new report.

Research Analysis Marketing came to this conclusion after carrying out a survey on 300 independent hardware and software retailers. However, they left out major high street outlets, such as Boots, W. H. Smith and Dixons, apparently because of the impossibility of obtaining sales figures from these sources.

Continued on page 8

Don't put off buying a computer in the fear that the price will drop, said Commodore's UK boss as he launched two new micros.

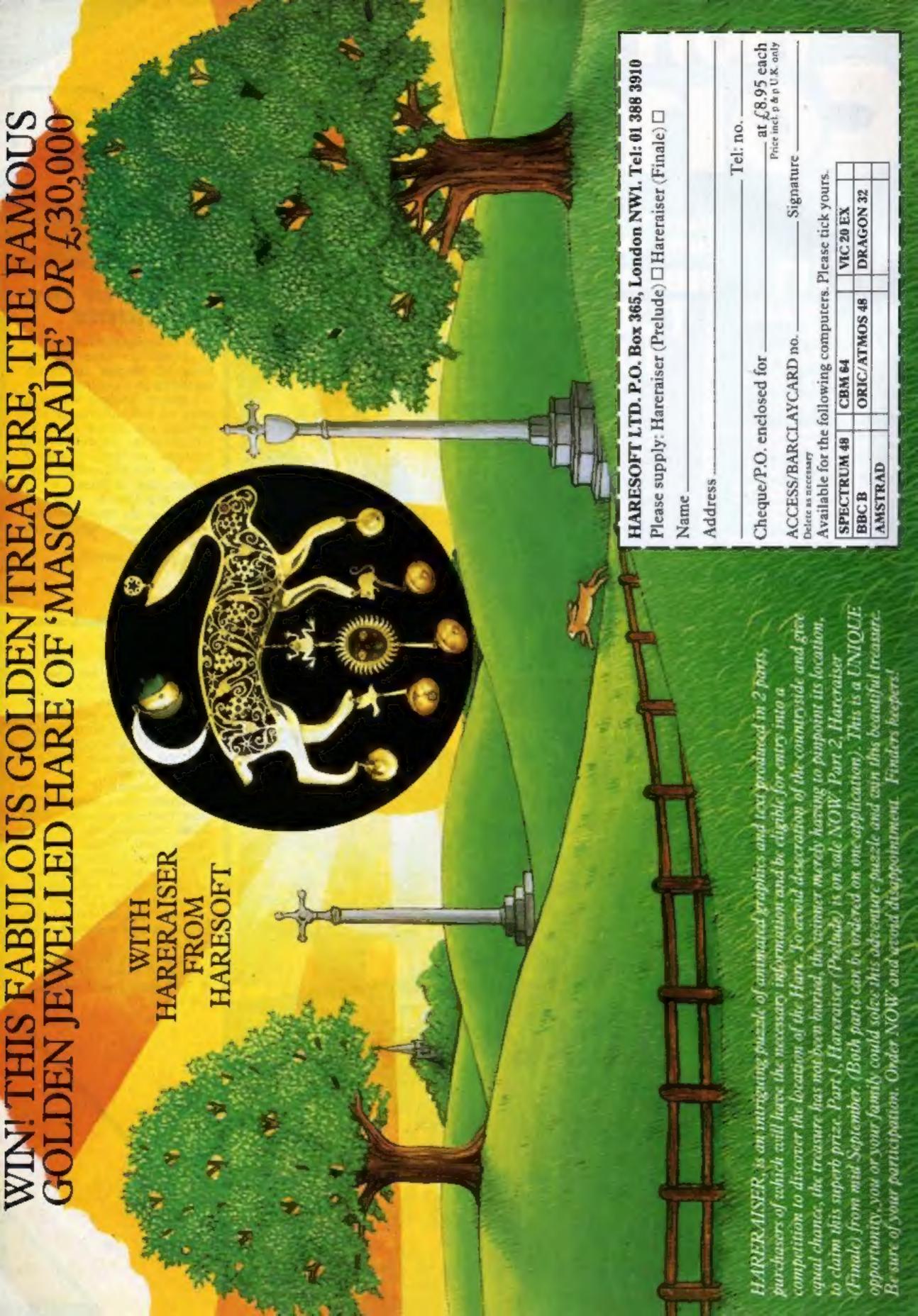
Howard Stanworth, speaking at the fifth Commodore show, said the price war had now ground to a halt.

The company's two new computers share many of the same features, including a 32K ROM containing the operating system and BASIC, and a typewriter-style keyboard.

The Commodore 16, designed for beginners and sold in a starter pack for £129, has 16K of RAM and the Commodore Plus/4, priced at £249, has 64K of RAM.

Commodore also previewed two Z8000 16-bit computers.

Full show report — pages 5
 and 6



BUY THIS SPACE
TO ADVERTISE YOUR
LATEST PRODUCTS!
Ring John or Stuart
on

01-437 0626. NOW!





REGULARS

Commodore show report
News
Software charts Our exclusive guide to best-selling arcade and non-arcade software plus Top 10s for six home computers
E1,500 Hewson Consultants competition . 15 Win a flight simulator all you have to do is spot the differences As usual, entry is absolutely free
Haresoft offer: £1 off Now you can join the £30,000 treasure trail at a special price, just for HCW readers.
U.S.Scene The latest from our man in California
Letters The page where you say what you think. There's free software for the best letter
Classified ads start on

PROGRAMS

Unexpanded VIC-20. Get trigger-happy and dodge your opponent's fire in a game to demands fast reactions	hat
Commodore64 Two listings to type in: test your chemistry knowledge and then to flutter on the Grand National	28 ry 2
TI-99/4A Will you risk sharks and mines for pearls and treasure?	ş

HOME COMPUTING WEEKLY BRITTIN'S BRIGHTEST

ZX USER

Another FREE 16-page magazine for owners of the Spectrum and the ZX81. Here's a sample of what's in this issue:

- three pages of Spectrum software reviews
- a great adventure to type in for the 48K Spectrum
- test yourself with our game for the 1K ZX81
- · keep track of your software with out chart maker
- be an artist with a graphics utility to type in

There's a full contents list on page three of ZX User



Five more for the 64 . . .

All the listings in Home Computing Weekly are tested for quality and checked for accuracy. You'll find programs for these micros in this issue

SOFTWARE REVIEWS

including a look at new low-priced games	
Quick on the draw	13
Action packed	18
Follow instructions	20
Find the key	23
Get inside your micro	54

Editor:
Paul Liptrot
Assistant Editor:
Liz Graham
Designer:
Bryan Pitchford

Managing Editor: Ron Harris Group Editor Elspeth Joiner

Advertisement Manager: John Quinn Assistant Advertisement Manager: Stuart Shield Divisional Advertisement Manager:
Coleen Pimm
Classified Advertising:
Debra Stupple
Chief Executive
Jim Connel!

Argus Specialist Publications Ltd.
No.1 Golden Square, London W1R 3AB. 01-437 0626

Home Computing Weekly is published on Tuesdays. Subscriptions and back issues: Infonet Ltd, 10-13 Times House, 179 Marlowes, Hemel Hempstead, Herts HP1 IBB. Trade distribution: Argus Press Sales and Distribution Ltd, 12-14 Paul Street, London EC2A 4JS. 01-247 8233. Printed by Alabaster Passmore & Sons, Ltd, of London and Maidstone, Kent. Design and origination: MM Design, Circus House, 26 Little Portland Street, London WIN 5AF

WE'VE GOT THE TALENTand our games prove it!

Amazing graphics, fast and funous action, challenging strategy, compelling adventure - this first wave of games from TALENT has got the lot!

Written by professional computer scientists using powerful new programming techniques (which leave machine code standing), these games have pushed home micros to the very limit!

SPOT YOURSELF A TALENT GAME TODAY-WE'RE GOING PLACES - FAST!







DISCOUNT ON ALL TALENT PRODUCTS!

For every TALENT product you order, we'll deduct £2.00 from the price.

INSTANT CREDIT CARD

This offer must end on August 31st so don't delay — make sure you've got TALENT! Software from Scotland

Dare you venture into the ancient undersea labrinths which link the islands of the Archipelago? Fabulous jewels await you there - but the guardians of the treasure mark your every move, waiting to deal a swift and terrible vengeance. How long can you SUFVIVE?

A fast-moving, action-packed game with brilliant graphics, animation and music. Commodore 64 (joystick needed) Cassette £7.95 Disk £9.95

One of the oldest games in the world! Originally played by Bedouins using pebbles and holes scooped in the desert sand, this strategy game has absorbed the mind of man for thousands of years. Superb graphics and music, with a choice of levels and depth of search. Easy to learn, frendishly difficult to beat! Castethr 17.95 Disk £9.95

LASER REFLEX

A new angle in alien zapping! Against a brilliant backdrop of stars, you must defend your asteroid base from wave after wave of swooping mutating starships. Your defence - a powerful laser deflected against a giant mirror. How long can you hold out before your defences crumble? BIC Model II Cassette £7.95

Carnette (1.95

A compulsive adventure game set in a ghost town in the Wild West. Your task - to flush out a gang of bank robbers and retneve their loot - with only your trusty steed and your six-shooter to aid you!

Test the speed of your draw, your skill at cards, your WESS OF SULVIVAL

Carnette (735

Cassette £7.95

The first of a stunning series of adventure games from Allan Black, played in real-time. Cassette £9.95 Desk £12.95 Commodore 64

PANORAMA (H)

COC Model & Crest embyl

Electron (text only)

An outstanding graphics package for the Commodore 64. Features include: free-hand. sketches, circles, ellipses, block move, copy and reverse, magnification, choice of cursor, joystick or key control. PLUS texture definition and texture and colour fill. PANORAMA (H) uses the full colour facilities of the Commodore 64. Pictures can include text and can be stored and incorporated into BASIC programs. The program is menu-driven and comes with a comprehensive illustrated instruction booklet. We use PANORAMA (H) to create all the graphics for our Commodore 64 games. Need we say more? Casette £17.95 Disk £19.95

TO: TALENT COMPUTER SYSTEMS FREEPOST (no stamp required)

24 HOUR ORDERING SERVICE TEL 041-552 2128

Please send me the following Homs:

GLASGOW G4 OBR

	_	
COMMODORE 64		SPECIAL PRIC
PANORAMA (H)	Cassette (£17.95)	£15.95
PANORAMA (H)	Disk (£19.95)	€17.95
ARCHIPELAGO	Cassette (£ 7.95)	€ 5.95
ARCHIPELAGO	Disk (£ 9.95)	€ 7.95
KALAH	Cassette (£ 7.95)	€ 5.95
KALAH	Disk (£ 9.95)	€ 7.95
WEST	Cassette (£ 5.95)	€ 7.95
WEST	Disk (£12.95)	£10.95
B 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
LASER REFLEX	Cassette (£ 7.95)	€ 5.95
WEST (text only)	Cassette (£ 7.95)	€ 5.95
ELECTRON		
LASER REPLEX	Cassette (£ 7.95)	£ 5.95
WEST (burt only)	Cassette (£ 295)	£ 5.95

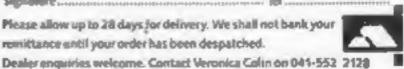
Total (includes postage and packing)

Fenciose a PO/Cheque to the value of £ ... Please debit my ACCESS

Name (block capitals)...

Please allow up to 28 days for delivery. We shall not bank your remittance until your order has been despatched.

First Cont.



CURRAN BUILDING, 101 ST. JAMES ROAD, GLASGOW G4 ONS TEL 041 552 2128

There's no reason for gloom, despite the collapse of three computer makers, said Commodore's UK boss as he launched two new

home computers.

Speaking at the fifth Commodore show, UK general manager Howard Stanworth said that, with 25 home micros and 300 for businesses on sale, it was easy to understand the confusion in people's minds.

But Commodore did not doubt the buoyancy of the market - the UK was a special case with com-

puters in 15 per cent of homes. He said: "What we have got to get over is that computers are fun. whether they are used for games or for more serious purposes.

"There's no reason to indulge in techno-fear. There's no need be be afraid of computers.

"People are said to feel that technology is a barrier between them and society. We know that is

not true."

Mr Stanworth said Compunet, a new micro network using the phone system, would help. Previewed in HCW, Compunet will use a £99.99 Commodore modem - including a free 12-month subscription - to offer discount software, mailbox and, in the future, features like catalogue shopping and financial services.

Compunet, using 12 telephone numbers throughout the UK, is due to be available, first for Commodore 64 users, by the end of

the year.

Mr Stanworth said that now the price war had ground to a halt there was no reason to put off buying a computer in the fear that the price was about to drop.

Commodore's two new home computers share many of the same features, including a 32K. ROM containing the operating system and more than 100 BASIC keywords, including graphics and sound, and a typewriter-style keyboard, including a HELP key.

The major differences are in memory size and free software,

The Commodore 16, designed for beginners, is sold in a starter pack comprising computer, cassette unit, Introduction to BASIC part 1 and four games. It has 16K of RAM, of which 12K is available to BASIC.

The Commodore Plus/4, priced at £249, has 64K of RAM. 60K available to BASIC, with four software packages in ROM: word processing, a spreadsheet, database and business graphics.

These are the features they

share:

Processor: 7501, running at .89-1.76 MHz

Display: 40 x 25 text, 320 x 200 pixels, including split screen. 121 colours: 15 colours, eight luminance levels, plus black

Sound: two tone generators or one tone and one white noise

No gloom as Commodore show new micros

What was new at the Commodore show. Paul Liptrot brings the first full report



generator. Nine volume levels Keyboard: 67 keys (66 on the 16 which excludes BREAK), including four cursour control and four function keys

Input/output: user port, serial port, cassette and disc drive port, two joystick ports, monitor, audio

There is a range of new peripherals, including disc drives and printers.

Commodore previewed two Z8000 16-bit computers: the Commodore PC, an IBM-compatible with 256K of RAM, twin 51/4 in disc drives and 9 in amber with Unix-like Coherent 7 operating system for multi-user and multi-tasking. The Commodore Z also has

screen, and the Commodore Z,

very high resolution and uses icons - like the Apple Lisa and windows.

Both are due in the UK in the first quarter of next year. Prices were not given, but the IBMcompatible at present is £1,000 and one rumour suggests that the Commodore Z will be priced at about \$3,000 in America.

The show, with more than 100 stands, featured attractions like bodypopping, basketball stars, computer racing against Stirling Moss and TV personality Christopher Biggins, computer soccer with Radio Luxembourg and seminars.

Among the new products on

Romik previewed its graphics package for the Commodore 64, which is to offer a graphics editor and sprite handling. Priced at £14.99 it is due out in a week with versions for BBC, Electron, Amstrad and VIC-20 to come.

Micro Power has brought out its first Commodore 64 software - all converted and enhanced from BBC versions and including its Power Load, said to load 31/2 times faster. The games, all at £6.95, are: Ghouls, Cybertron Mission and Felix in the Factory.



Micro Power launched a

range of new 64 software

Commodore 3.5 BASIC keywords

LOG

LEFTS

MONITOR for

built-in

LENS

AUTO line numbering ABS ATN ASC BACKUP disc to disc CONTinue CHAR text display CIRCLE **CLOSE** file CLR erase variables CMD COLLECT COLOR COPY between dual discs. COSine CR5 DELETE DIRECTORY DLOAD DSAVE DATA DEF FN define function DiMension DO/LOOP/WHITE /UNTIL/EXIT DRAW **DECircul** value of hex string.

EXP ERRS FOR ... TO ... STEP FN returns user, deld function. FRE unused memory **GET** beypress GETKEY GOSUB COTO GRAPHIC selects mode HEADER formut **HELP** displays CITOE IN INVESSE HEX5 IF...THEN...ELSE INSTR INTeger JOY reads joystick. **KEY** define function key LIST LOAD LET LOCATE

m/c monitor MIDS NEW NEXT ON OPEN PAINT POKE PRINT **PRINT USING** PUDEF allows redefinition of up to four chars to PRINT USING statement. PEEK POS PL RENUMBER RUN READ REM RENAME file RESTORE RETURN **RCLR** returns

RDOT pixel values RGR current graphics mode RLUM current luminunce RND RIGHTS SAVE SCRATCH delete disc file **SCALE** display SCNCLR clears current screen SOUND SSHAPE/GSHAPE save, restore screen or area STOP SYS SGN SINE SQR STRS SPC TRAP errors TRON TROFF TAN BAT USR VERIFY

VOLume

VAL

SPECIAL REPORT

New releases from Quicksilva for the Commodore 64 and conversion of three popular Spectrum games from New Generation: Trashman, Escape and 3D Tunnel. All are £7.95.

Stonechip now has new software for its £19.95 light pen for the Commodore 64 and the VIC-20. A new cassette interface for both costs £14.95.

Rabbit showed its Death Star game for the Commodore 64 and Abacus previewed its CAD (computer-assisted design) package for the 64. It costs £35, including a light pen.

A range of new utility cartridges, at£25-£44, was shown by Stack, all for the 64, along with its 64 DTL compiler, costing £14.95 on cassette and £34.95 on disc.

New for the 64 from Paramount is Room Lord, a 64 arcade-adventure which involves tracking down heirlooms in a mansion.

Jeff Minter, of Llamasoft, said he was off to Peru soon to see the llamas. He was showing Metagalactic Llamas Battle at the Edge of Time, £5.50, which has been converted for the 64 from the VIC. And within a fortnight he plans to release, at £7.50, an Atari version of Attack of the Mutant Camels.

Bubble Bus promised a new game from Bumping Buggies author Richard Clark... after he has finished his O-levels. Called Cave Fighter, it will be out in late July for the 64 at £6.99. The company has a new war game, Strike Force, and has put together its three 64 utilities — word processing, label printer, poster printer and a display program — into one package called Quadrillion, costing £14.95 for the 64.

Richard Paul Jones, boss of

Super Stik, a new US import

Interceptor, showed Ian Gray's new title, Tales of the Arabian Nights, a £7 arcade game for the 64 which features speech. Where's My Bones? is also £7 and both are on disc too at £9. Interceptor also has a new assembler, Puls (£7).

Anirog launched a graphics package called Cas-Kit, at £14.95 for the 64. And there were two new games for the unexpanded VIC, Minitron, a robot chase game, and Max, similar to Anirog's Hexpert. Both cost £4.95.

Alice in Videoland, £12.95 on disc only, is at last available from Audiogenic after being promised at the last Commodore show. Henry Smithson explained that the U.S. company for whom the author was working ran into money trouble, so Audiogenic took over the game. The program, based on Lewis Carroll's book, is 90K long and loads in sections. Audiogenic also brought out Frantic Freddie and Pegasus, also at £12.95.

Melbourne House, which has several games and books lined up for autumn release, launched a 64 arcade game called Star Trooper (£5.95). At the end of June Horace Goes Ski-ing, already out for the 64 and Spectrum, is promised for the Dragon. One of the autumn products is a pre-school program called Animal Antics, in which children change around the heads, bodies and legs of animals.

Music Master is a new 64 utility from Supersoft at £17.95

• Super Sketch, a new graphics tablet from America

• 64 Doctor, a new diagnostic program from Practicorp

on tape and £19.95 for the disc version, including a comprehen-

 Compunet in action. The black modem plugs into the back of the Commodore 64



Where to find them

Computers, ADP Network Services, Heathrow House, Bath Road, Hourslow, Middx TW3 9QP Commodore, 675 Ajan Ave, Slough, Berks SL1 4BG Romik, 272 Argyll Ave, Slough, Berks SL1 4BG Romik, 272 Argyll Ave, Slough, Berks Micro Power, Northwood Hise, North St, Leeds Quicksilva, 13 Palmerston Rd, Southamptom, Hants SOI 1 LL. Stonechip, Brook Trading Estate, Deadbrook La, Aldershot Hants Rabbs, Unit 11, Forward Dr, Wealdstone, Middx HA3 8NU Abacus, 20 Rhosleigh Ave, Sharples Pk, Bohton BL1 6PP Stack, 290-298 Derby Rd, Bootle, Merseyside Paramount, 67 Bishopton La, Stochton on Tees, Cleveland TS18 1 PU Liamasoft, 49 Mount Pleasant, Tadley, Hants RG26 6BN Bubble Bus, 87 High St. Tonbridge Kent Interceptor, Lindon Hise, The Green, Tadley, Hants Anirog, 29 West Hill, Dartford, Kent Audiopenic, J9 Suttons Industrial Pk, London Rd, Reading, Berks Melbourne House, Castle Yard Hise, Castle Yard, Richmond, Surrey Practicorp, Goddard Rd, Whitehouse Industrial Estate, Ipswich, Suffolk IPI 5NP Personal Peripherals, Mernick Pk, 930 North Beliline, Suite 120, Evring, Texas 75061, USA

Mirrorsoft, PO Box 50, Bromley, Kent BR2 9TT

sive manual, Supersoft also has Interdictor Pitot, a space flight simulator written by an RAF pilot, at the same prices and Graphics Designer (£9.95 tape, £11.95 disc) as well as three new 64 games, Pesky Painter, Star Command and Star Crash, all at £6.95.

A new fault finder for the 64 was released by Practicorp. Called 64 Doctor, it is a series of diagnostic tests designed to find the defect, whether it is in memory, keyboard, disc drive, joysticks, RS-232 port, video display, audio or printer. It costs £17.95 on tape and £19.95 on disc.

A newly-formed Texas company, Personal Peripherals, showed Super Sketch, a graphics tablet for the 64, VIC-20, TI-99/4A and Colecovision, and Super Stik, a joystick claimed to be more durable than its rivals. Both should soon be on sale in the UK. Dollar prices are \$49.95 for Super Sketch, including cartridge software, and \$9.95 and \$24.95 for the two Super Stik models.

Mirrorsoft brought out three new titles for the 64: Go-Sprite, a sprite editor, Look Sharp, an observation trainer for children, and Count with Oliver, which is for four- to seven-year-olds. Look Sharp and Count with Oliver are also available for Spectrum.

From front page

John Baxter, marketing manager at Commodore, said: "We knew we were close behind Sinclair and now we have overtaken them.

"The Commodore provides better value for money than the Spectrum," he continued. "It has a better memory, proper keyboard and at least 20 per cent of the people who buy our computers are buying disc drives.

"It's the computer for the person who's serious about computing. The Spectrum isn't suitable for business or for

word processing?'

Mr Baxter also attributed the rise in Commodore sales to software. "There is a lot of good software available for the Commodore 64?' he said.

"We will ship 60,000 Commodore 64s in June. Of these, 45,000 are orders, so that leaves only 15,000 to sell. Our back-up service is good. Admittedly after Christmas we did have problems, because we sold so many computers. Four per cent returns on 200,000 machines is still a lot of computers, so there were delays!

However, the problem is now resolved according to Mr Baxter, "Computers are returned to the manufacturers for a variety of reasons, and sometimes because the user doesn't yet know fully how to operate it. We now have a three-day turnaround: that means that from the time we receive a returned computer, within three days we will send it

out again.

"We are very pleased at our sales figures."

However, Sinclair was sceptical about the claim that Commodore was ahead. A spokesman said: "The survey which Commodore is quoting is based on a very small selective sample of independent dealers, and isn't a comprehensive sample of the whole market!"

He went on: "The AGB Home Audit report on sales of computers for the first quarter of this year, to the end of March, had Sinclair with 43 per cent of the market, and Commodore with 28 per cent, followed by Acorn a long way behind with 14 per cent. These findings are from fully independent research carried out right across the board, and have been confirmed by our own research.

When questioned about Commodore's shipment figures for June, the spokesman said: "Shipment figures aren't as meaningful as sales figures, and I

can in fact be very misleading. Some dealers may want to stockpile computers for the summer.

He concluded: "I am confident that Sinclair will remain ahead, with Commodore undisputedly in second

place!"

Boots' sales figures back up Sinclair's arguments. A senior executive said: "The 48K Spectrum is currently our best selling model by a significant margin. It has been considerably outperforming the Commodore 64 over the last couple of months?"

First MSX software

Kuma claims to have released the first MSX program in ZEN Editor/ Europe. Assembler/Disassembler is reported to be a complete system for generation and analysis of Z80 assembly language programs. Included in the price (£19.95) are a symbolic assembler and disassembler, text editor and machine code monitor. The complete source code of ZEN itself is supplied to every user.

Jon Day, sales manager of Kuma, said: "We are developing a comprehensive range of utility and entertainment software for the MSX. I think ZEN will be invaluable to users wishing to write and debug efficient assembly code

programs,"

Kuma, Unit 12, Horseshoe Rd. Park. Horseshoe Pangbourne, Berks RG8 7JW

Write your own programs

Home Filewriter is a combined intelligent database/program generator for the BBC with twin five-inch floppy discs. Available from Dynatech, the Filewriter is intended to enable novices to write their own intelligent database programs

easily and quickly.

When using Filewriter, you simply type a record layout on screen and instruct the software program to translate the the information into appropriate computer code. The programs produced are self prompting and reject illegal inputs. They also inform you when an error has been made. Price: £39.95.

Dynatech, Rue du Commerce, Bouet, St Peter Port, Guernsey, Spectrum add-on

Here's a new add-on for your Spectrum: the LoProfile keyboard, from Advanced Memory Systems. Featuring a full length space bar and a dedicated numeric keypad, the keyboard increases the number of keys from the Spectrum's 40 to 53. The sculptured keys are height adjusted and clearly labelled.

You place the PCB inside the keyboard housing and all connections use the ports at the rear of the unit. You don't need to adapt any of the connections, which of course makes the add-on much safer.

The LoProfile is available by mail order, price £49.95 plus £2.50 p&p, or from your

regular dealer.

Advanced Memory Systems, Green Lane, Appleton, Warrington, Cheshire WA4

New BBC programs

Two new programs for the BBC: Crazy Caves, an adventure, and Labdis, a labelling disassembler, from Silversoft.

In Crazy Caves you must recover the crystal artichoke from the caverns of death and place it in the hands of an old man. Find other gems on your way and use them to barter for useful items.

Labdis is written by Jeremy San in 100 per cent machine code. It is compatible with all existing filing systems, and is

menu driven.

Crazy Caves costs £7.95 for cassette and £9.95 for disc, while Labdis costs £9.95 and is available on cassette.

Silversoft, London Hse, 271-273 King St. London W6

Briefly

Don't curse if you've broken your joystick: Computer Supplies promises a fast joystick repair service - within 24 hours, in fact. Available for most models, including Atari, Commodore, Quickshot and Triga Command, the cost is £2.95 plus 50p p&p. You can also buy stronger replacement. handle inserts for Commodore 1311 joysticks from Computer Supplies, at £2.75.

Computer Supplies, 146 Church Rd, Boston, Lines PE21 0JX

Pop along to the Woodside Computer Event in Slough, on Thursday June 14 between 5 and 9 p.m. You will see demonstrations of hardware and software in education, work and the home. Slough has been suggested as the computer capital of the Thames Valley and Woodside will attempt to prove this.

Woodside County Secondary School, Norway Drive, Wexham, Slough, Berks SL2 5OP



If you're looking for a new programmable joystick interface, you will be interested in the new release from Custom Cables International. For the Spectrum, it is fully programmable and uses onboard RAM. Price: £15, or including joystick, £24.

Custom Cables International, Units 2,3 and 4, Shire Hill Ind Est, Saffron Walden, Essex CBII 3AO

Here's help for solving treasure hunt books - Treasure Hunt Tool-Kit, from GW Components. Its aim is to help you solve anagrams, codes and ciphers. Available for the 48K Spectrum, it costs £4.95, and you get a £1 voucher against the cost of the puzzle book With Interest, by David Betts.

GW Components, 50 Oak Tree Lane, Mansfield, Notts NG18 3HL

Dillons book shop in London is moving into the computer field. Dillons has extended the lower ground floor computer department to include hardware and is now offering customers handson experience in up to eight of the most popular home computers. Also available are games and educational software, as well as computing books, of course. Dillons boasts well over 1,000 titles in its stock range.

Dillons, 1 Malet St, London WCI

Announcing a new dual-game pack for the BBC: Galaxy Edge from Magic. The Discovery is part 1 — a classic text-only quest to discover priceless technological artefacts from the first empire of earth. Part 2 is an adventure program, Escape from Solaris, which is for two players and two BBCs. Link them with a RS 423 lead, LOAD and play. You can also play on one micro using a split screen format. Price: £7.45.

Magic, Elmswell, Bury St Edmonds, Suffolk

Publish your masterpieces

If you write your own games, you will be interested in this: Times Books is publishing two books of computer puzzles and games, one for the CBM 64 and the other for the Spectrum, and will award two top prizes of an Epson HX-20 portable computer to the best programs submitted. Five runners-up could win a Maplin ElectronicsModern, and all published entries will win £10 W. H. Smith youchers.

Submit your entries written in BASIC on a cassette if possible, together with a brief synopsis of the aims of the programs and a note on the level of difficulty. You will retain the copyright. Times Book of Computer Puzzles and Games, c/o Newtech, & Forge Ct, Reading Rd, Yately, Camberley, Surrey GU17 7RX



School's out

Looking for something to do in the long summer holidays? PGL is running two computer day camps for youngsters in the south. The camps will run from 23 July to 20 August at two schools in Croydon, and you can be picked up from one of 100 points in a 20-mile radius of central London.

At the start of the week you will be assessed and then you begin with a familiarisation programme, followed by exercises which have been geared to suit your particular level of experience. You'll work on the BBC and/or Electron.

Try your hand at word processing, design and data base handling and use

synthesisers and disc drives. Each person has the use of a terminal. There are two age groups, 9-12 and 12-15 years.

You won't go boggle-eyed over the screen, either: half of the time you'll be able to choose from 40 different activities, including hovercrafting and mini-motorcycling.

For one week you'll pay £79 plus VAT and you get the security that PGL camps are ABTA-bonded. Get your brochure from your local travel agent or direct from PGL.

PGL Young Adventure, Station St, Ross-on-Wye, Herefordshire, HR9 7AH.

u'll work ectron.

War of the Worlds

CRL has released a game based on HG Wells' War of the Worlds, for the 48K Spectrum. Written by Nigel Taylor, a 15-year-old schoolboy, it has you taking the role of the journalist travelling across the home counties to the Martian encampment.

Hazards are the Martian fighting machines, which confuse you so that you wander aimlessly, and the red weed, which will obstruct your passage and force you to find an alternative route.

You must visit six locations Carpe on successive days, in the right 2HD

order, if you are to rescue Carrie from the Martian encampment on the seventh day. You also need to find food and drink and shelter.

You can find clues to the correct order of locations in Jeff Wayne's War of the Worlds double album. CRL says that versions for the CBM 64, Oric/Atmos, BBC, Electron and MSX are also in the pipeline.

CRL, CRL Hse, 9 Kings Yd, Carpenter's Rd, London E15 2HD

Scare off burglars

Use your Commodore 64 or VIC-20 to protect your home from unwanted intruders. The sentinel system from Micro-Security uses an I/O interface unit which connects to the user port of your micro.

A complete DIY kit containing I/O interface unit, control program on tape or diskette, external alarm bell and waterproof housing, internal buzzer, panic switch, 10 sets of magnetic reed contacts, cabling, cable clips and installation and operation instructions, sells for £99, p&p £5 extra.

Interface unit and software alone costs £59.95, p&p £2.50 extra.

Micro-Security, PO Box 18, Havant, Hants PO9 3LB

Where am 17

Lloyds Bank is running a project to support local archaeological societies by donating modest sums of money to help with purchase of equipment. What's that got to do with computing, you may ask?

Archaeologist Paul Brown has written a program to help with a rescue dig by the Maldon archaeological group. His program, Pitcalc, won him £200 from Lloyds. The problem Mr Brown tried to overcome was where he was during a dig. The gravel face of the pit he was working on was constantly

moving so he never had time to evaluate his discoveries.

Pitcale enables him to pinpoint his exact location. He takes three compass readings and feeds them into the computer. The Spectrum does the hard work for him. If you're a computer buff as well as being an archaeology freak, you can obtain copies of the cassette by sending £5 to

Paul Brown, 152 Fambridge Rd, Maldon, Essex.

Switch on to micro show

If you live in Scotland, tune in to Grampian TV's new series Bits 'n' Pieces. It's a six-week series which will begin on Saturday June 9 at 10 a.m. Presented by local DJ Bobby Hain, the series will feature demonstrations and reviews of software. A wide variety of machines will be used and different computers will share the limelight each week.

Also planned are interviews with personalities of the industry. Dr Micro will be on hand to offer advice on your programming problems and Bobby Hain will review hardware.

The first in the series features games reviews for CBM 64, BBC B and Spectrum computers. The prototype Enterprise 64 computer will be making its TV debut and Matthew Smith, author of Manic Miner and Jet Set Willy will be talking about himself.

Colossus Chess 2.0 £9.99

CDS Micro Systems, 10 Westfield Close, Tickhill, Doncaster

This program gives a rather nice high resolution view of a chess board. Your moves can be entered by using a cursor or the standard co-ordinate convention; both are easy to use.

The program offers a second screen which displays the technical information relating to the game. This includes the moves so far, suggested best moves, positional and material state of each player and the details of the depth of search. The level of play is determined by the time you allow the machine to search for its move. This is variable in second

increments from 0 to one hour.

There are several other modes of play. I found the program played a strong game although at very easy levels it did make some silly moves.

The real strength of the game is the huge range of options. You can set up any position, save or reload an old game and backstep to make an incorrect move. You can get the machine to replay a game, and this option linked with a command which shows all legal moves for any given piece, acts as a simple aid for beginners.

A.W.

instructions	95%
ease of use	95%
graphics	85%
value for money	100%



Pub Quest £5.95

Dream, PO Box 64, Basingstoke, Hants RG21 2LB

This must be just about the ultimate in witty adventures. The object is to find your money, which is in the sewers, so you may pay off your bill at the Chequered Flag Inn. To make things a little harder you should bear in mind that you are drunk and will have slight difficulties in such simple tasks such as crossing the road.

Special attention should be paid to the descriptions which may hold clues to possible traps in the game. Be prepared for the program to play some jokes on you. So as not to spoil the game I will not say anything else except that you get what you deserve.

There are no graphics to accompany the text. This is not much of a drawback because the descriptions are so accurate and precise that you soon build up an image of where you are.

toading takes about 18minutes. This may sound a long time but the wait is worth it. You could always give your off licence a visit while the program loads—just to get into the swing of things.

K.I.

60%
85%
70%
95%



Space Pilot £7.95

Amrog, 29 West Hill, Dertford, Kent

This game will appeal to the more adventurous players who have always wanted to rule the sky and kill anything that moves.

The object is to shoot about 56 enemy aircraft, collect the parachutists and finally blow up the zeppelin. Completing this will take you onto another level of enemy aircraft. There are five levels in all, each one containing different types of aircraft from different periods in the history of aviation.

The scenario is a screen of clouds moving left and right with your enemies moving inwards from the sides. You stay in the centre and everything else moves according to how you push the joystick.

The graphics are slightly chunky and lack definition in places. This is quite acceptable though — good use is made of colour which accounts for a drop in resolution.

I found that when playing any minor faults in the graphics were made up by the action.

Space Pilot is a good game which loads well — it only took 80 seconds. A joystick is preferable to the keyboard for playing.

instructions	30%
playability	80%
graphics	85%
value for money	850%



Five more for the 64

- including a look at two of the new low-priced titles from Mastertronic

Squirm £1.99

Mastertronic, 48 George St. London W1

This is a variation on the classic ghost maze game. In this case a Queen squirm travels round the maze laying eggs and you score points by following the trail picking them up. Two guard squirms may beat you to it and you have to avoid them.

If you manage to collect 255 eggs you have a bonus run. During this run you are safe from attack but you cannot double back. After a bonus run you go up a level and the fun begins again.

When you eventually run out of lives the high scoreboard is displayed. If you are among the top five highest scorers your score is displayed and you can enter your name against it.

The cassette card gives a good indication of how to play the game and on loading the game a screen repeats the instructions. The screen graphics and colours have been carefully chosen to keep the action clear.

I liked this game. The pace was just fast enough to achieve a creditable score which might be bearen next time round. Not a bad game and slightly different.

L.C.

60 Vi

70%

70%

60年

instructions playability graphics value for money

Jungle Story £1.59

Mastertronic, 48 George St, London W1

An avoid-and-shoot game with a difference. The scene is the jungle. Snakes slither and elephants charge. There's no stopping them and you have to avoid them. Leopards run across the screen but you can shoot these. While you're doing this you have to watch out for arrows shot out of the jungle by savages and also avoid ecconut bombs dropped from the trees by monkeys.

The situation is loosely based on Jungle Book. You have to get Mowell through this unfriendly Jungle to a village to collect a point of fire. With this you can confront Khan the Tiget.

The plot sounds appealing but the game is not so good. The graphics are fairly crude with all the action in dead straight lines. The game is made difficult by simply having so many things to avoid on the screen at once that there is no path past them, Consequently I never got to the village and in fact lost interest after a few goes.

The cassette card gives no details of how to play the game or whether a joystick can be used. These details come up on a preliminary screen when the program is loaded. This is not a game I can recommend although the idea is quite good. L.C.

instructions 40% 50% 50% 50% 60% 50% 50%



BRITAIN'S SOFTWARE by the ASP Market Research Group

ARCADE

- 1 Jack and The Beanstalk
- 2 Jet Set Willy
- **3 Psytron**
- 4 Super Pipeline
- 5 Duck Shoot
- 6 Crazy Kong
- 7 Beach-Head
- B 1994
- 9 Atlc Atak 10 Space Pilot
- Thor
- Software **Projects**
- Beyond
- Task Set
- Interceptor
- Micro
- US Gold
- Vision
- Anirog

- - Spectrum (1)

Spectrum (2)

- Spectrum (4)
- CBM 64 (-)
- Master Tronics VIC-20 (-)
- **Ultimate**
- VIC-20 (-)
- **CBM 64 (9)**
- CBM 64 (-) Spectrum (-)
- **CBM 64 (7)**

ION-ARCADE

- 1 Mugsy
- 2 Flight Path 737
- 5 Fall of Rome
- 4 Snooker
- S Test Match
- 6 Twin Kingdom Valley
- 7 Golf
- 8 Solo Flight
- 9 The Inferno
- 10 Colossus chess

- Melbourne House
- Anirog
- APS
- Visions
- CRL
- **Bug Byte** Abrasco
- **US Gold**
- Richard Shepherd
- CDS

- Spectrum (1)
- CBM 64 (2)
- Spectrum (3) CBM 64 (-)
- Spectrum (4) **CBM 64 (5)**
- Spectrum(8) CBM 64 (-)
- Spectrum (-)
- CBM 64 (10)

Compiled with the assistance of Britain's leading software distributors, including: Pinnacle, SDL, PCE, Websters, PCS and Software Centre.

SPECTRUM

- Titlers and the INDEPOSTACE.
- 2 Jet liet Willy
- 3 Psytron **Ellius Thunder**
- SECRE
- 7 Chequered Flag 8 Alchemist
- Trauman
- 9 Atlic Atac 10 Wheelie
- Thor SN SOFTWARE Projects (1)
- DRYGAS (4) Foundry
- Systems (3) **Oulcksliva (-)**
- Server at the last
- Prioriti) (6) imagine
- Ultimate (-) Microsophere 68

COMMODORE 64

MONEY MONEY

- THE RESERVE AND ADDRESS.
- 3 Black Hawk A SEACE PRIOR
- **EXPACE Walk EArena 3000** *TCITY ATEUR*
- **B** Cosmic Convoy R ROAD TOAG

10 Harrier Attack

- **Software**
- MARKET STREET, Thorn EME(1)
- Anirog (2) Mastertronic (10)
- MILITOCHIA (A) K-tel (7)
- marre (iii) Austrogenic (9)

COMUE).

DRAGON 52

- 1 Cuckle Egg 2 CHITCHITI
- 3 Kriegspiel
- 4 Eightbeil **SHUMPLY HOTSCO**
 - 6 Ught 7 Up Pertscope
 - **BSkrambie** FTRe Circo

10 Pedro

- ARF(1)
 - Microdini III peyona (1)
 - Microckel (8) Medicine
 - House (-) Softek (-) SEVERNE (S) Microdeal (7)

Microdeal (-)

DTUIGATE (-)

Compiled by W. H. Smith and Websters. Figures in brackets are last week's positions.

BBC

VIC-20

- Touck Shoek 2 Crazy Kong
- STank Commander A Charlot Race 5 COMPUTER WAY
- & Sup Commender 7 Jet Pac
- 8 Gridrunner 9 Mutant Herd SGTawar of Exil
- Mastertronic (1) CHICEDOOF
- Micro (5) Thorn EMI (2)
- Micro Antics (3) Thorn EMI HE
- Thorn Exits URTEMBER UN (Jamanoff (E) Thorn Elli (7)

Thorn EMI (-)

- 1 Aviator
- 2 JCB Olgger **3 Over-Drive**
- **4 Battle Tank**
- 50 Man **GPercy Penguin**
- 70 Man's Brother I ID Murchy
- 9 Spiefire Command Tuberior 18 10 Killier Goriffa
- Acorman III
- Acomsoft (2) Superior (5)
- Superior (4) Superior (3)
- MRM (7)
- PERSONAL PROPERTY. Micro (-)

ZX3I

- 1 Krazy Kong 2 Krypton Ordeal
- I WHEN SHO PURE
- **APIDNET REIDE** 5 Asteroids CELT MEDICAL
- 7 Black Crystal EFRIGHT Simulation
- **F.Aihem Rain** TRUMBES TH
- MONING (1) Novus (2) Novus (3) Quicksliva (B) Quicksliva (7) Camell (-) Engille (5) CRL (6) Sinclair (7)

PSS (4)



It loads Spectrums four times faster than an ordinary cassette player, uses standard cassette software, and has improved loading reliability.

The new Sprint from Challenge Research will load and save Spectrum programs at four times the speed of conventional cassette players, this even applies to standard program and games cassette software that has been pre-recorded at normal speed. All this plus improved loading reliability is available for just £64.95 inclusive of post, packing, VAT and a 12 month guarantee. The Sprint is dedicated to both the lok and 48K Spectrum and we will refund your mand provides an Innovative but inexpensive new concept in cassette tape storage.

Use of the Sprint is simplicity itself-

Retains the standard Spectrum commands and format.

Advanced digital circuitry and signal processing

Improves loading reliability and eliminates volume setting.
 Simply plugs into the Spectrum port — no interface or external power unit is required, it even has it sown expansion slot so that you can still use other peripherals.

at the same time

 A full 48K program will load or save in 75 seconds rather than five minutes with a conventional cassette recorder

CHALLENGE RESEARCH

218 High Street, Potters Bar Herts EN6 5BI Potters Bar Tel (0707) 44063

Spectrum and be the envy of your friends
If you have Visa or Access cards you may phone your order to ensure faster delivery by calling Potters Bar (0707) 44063, or post the coupon below.
Please allow 28 days for delivery. If you are not delighted with your Chailenge Sprint simply return it within 7 days and we will refund your money in full

TRADE ENQUIRIES WELCOME

The second secon	isar Herts i Nó 5Bl Tel Potters Barr(0707) 44063 agu Spinitr at £6495), neliusive of post, packing, vAT and
Please to a box if you rec	pare a further 2 years guarantee at an additional cost of £750 🔲
Name@ascent.	
Address	
Signature	
en, use cheque posic	i inder made payable to c'ha ienge Research for €
Please charge my Acco	55 Ti So No. Idock as appropriate the sum of £
	HCW 19/6

RUNESOFT PRESENT

Enter the realm of Dream and Paradox — Survive 150 locations on what is probably the most difficult task you've ever been set — If you can!





Help Yaw Ning to find SPOOF the magic dragon, despite the whole world being setagainst him, Poor Yaw — You'll probably die laughing.

Popular Computing Weekly (15:04:64) Paradox looks from a quick play and the complex maps I ve been sent explaining it, like one of the most complicated adventures ever designed addiction is probably ensured.

LOOK for the

RUNESOFT



Lago

** COMMODORE VERSIONS AVAILABLE SOON **
RUNESOFT artwork by Nick Bibby

PARADOX, SPOOF and SPECTREALM (a strategy game for budding Emperors), for the Spectrum 48K computer are available from selected shups nationwide at the following prices:

PARADOX: £7.50; SPOOF: £7.50;

SPECTREALM: £6.95

in case of difficulty, ask your local stock-st to contact his distributor or send cheques POs direct to

RUNESOFT

Charnwood House, 67 Lower Parliament St. Nottingham NG1 3BB. (Tel. 0602 (STD) 287667 & 271748

Spectool

makes Basic easier, faster, more efficient

The most comprehensive toolkit ever devised for the 48K Spectrum

Spectool gives you 30 powerful new single-key entries to make Basic programming easier for the beginner, faster and more efficient for the advanced programmer. Commands include AUTO start, CLOCK, COPY, HEXDEC, INSERT to, JOIN line no, MEM, MOVE, PEEP, REMKILL, REN, SLIST, SQUASH, TRACE and lots, lots more.

£7.95

complete with operating manual

Post & Packing 40p Send cheque/PO, payable to Mikro-Gen, or phone your Access/Visa number for immediate despatch.

Look out for Mikro-Gen's superb selection of sensational games software in Boots, Menzies, W H Smiths, Co-op and other leading retailers. Write for complete list:

44 The Broadway, Bracknell, Berks RG12 1AG Tel: 0344 427317

Mastronic, 48 George St. London W I

In this game your mission is to guide your submarine and pick up frogmen as they come into view on the screen Meanwhile enemy aircraft fly overhead dropping depth charges. The sea is populated by submarine-eating fish which you must avoid or torpedo

When you have rescued several frogmen you go up a level and the game becomes more difficult At the top of the screen are your score, highest score and the number of remaining lives. You have three lives

After a while I found I could frequently get up to the next level with all my lives intact. However

the game didn't change. I would have prefered a different sea monster, grant squids or crabs, tor instance.

I found the game rather tame after the initial interest had worn off. The screen graphics are not outstanding and the game is short on instructions. The inlay card gives no instructions at all Only when you load the program do you get two screens of instructions. The inlay card should at least say whether b joysticks can be used. All in all I was not terribly impressed by this It offering

4000 instructions. 51,00 playability 51.00 graphics 44)00 value for money

DUCK LINDUI

London W I

This is a shooting gallery-type of game. There are three conveyors moving across the screen on which are ducks, rabbits, owls, numbers and letters. Above the conveyors is a row of spinning

 You have limited builets and limited shooting-time. In ducks. addition to scoring points for hitting the items on the conveyor you need to but all eight spinning plates to go up a level. This is complicated by a duck which. thes across the top of the screen If you don't but this duck all the spinning piales are restored and

you start again.

The ducks on the conveyor are apt to fly down and eat your bullets. If you run out of time Mastertronic, 48 George St. before you run out of bullets the conveyor speeds up Bonus points can be obtained if you hit he letters bonus in that order on the conveyor. I never got beyond a as I was too busy trying to stop the ducks eating my bullets.

> Despite all the action 1 found the game did not hold my interest for long, parily because there were too many bullet-eating

instructions	70%
playability graphics	50% 60%
value for money	50%

Microdeal, 41 - Truro Rd. Still Austell, Cornwall PL25 5JI

Cuthbert is in space this time You have to fly around the screen picking up fuel pods When you have cleared the screen you can collect the loot Simple? No, to make the game; harder there are Moromans flying across the screen. If you should coulde with one you lose ! one of your four lives. To help you overcome the Moronians you are equipped with a laser From time to time you will be sent for repairs to your space craft, this is spoiled since I s done in text mode

The game has 12 levels increas ing in difficulty, with more Moronians flying across the

screen. Sound and the graphics just manage the good rating in my books. However the graphics are fast and can be distracting

The instructions have been laid out very well, more so than the game. You are told that by using keys J or K you can change your control from joystick to keys They have got that wrong some where since you can change without using the keys. Also the frestore key is supposed to restart 🚉 Trhe game, instead it made a mess of the screen

900% instructions 5500 playab lity graphics 6040 45% Ivalue for money

Quick on the araw

All these games need a quick wrist — lasers and rifles shoot down Cyborgs, Moronians and ducks. Score bullseye and hit the mark every time

Attack on Windscale £9.99

Marsh Rd, Pinner, Middx

adventure games which are sec starting to appear on the Overall I have not managed to game

invaders. One enemy flies across games. the screen and one moves down I found it too hard after lever I instructions because the speed gets too fast playability

When or if you have graphics completed all four levels you value for money may move on to the adventure a game. The problem is that if you cannot master the arcade game

then you are unable to start the adventure

I found the adventuce slightly edious - it is menu-driven. This stops you from wasting time by Phoenix, Spangles Hse, 116 entering commands which will not work but you also find that you miss the excitement and This is one of a series of arcade versatility of "let's try if and

software market. You play the do wonders with the game due to arcade game and you are given the time scale needed to get clues to help in the adventure through it I would recommend it to anyone who does not like 'trial' The areade game is a fast and error' adventures and has a shoot-'em-down version of space, friend who is good at fast arcade

> 30% 60% 50% 60%



Turtle Jump

Romik, 272 Argyll Avc. Slough,

The screen sciting is a map of a group of Caribbean islands with turiles swimming between them Your objective is to get from one island to another, collecting treasure points

You can jump short distances and travel on anything solid, like the backs of the turtles. How ever, if a crocodile appears all the turtles dive. There are a few logs and small volcame is ands which sporadically appear

Food grows on the islands and is used to top up your energy level. There is an energy barometer displayed on the screen to inform you when it's time for a forage. On one island there is a treasure chest. You riust recover the treasure by jumping in while the lid is open and getting out again before it closes. The longer you're in the chest the more treasure you collect. Collected treasure must be aken back to your home is

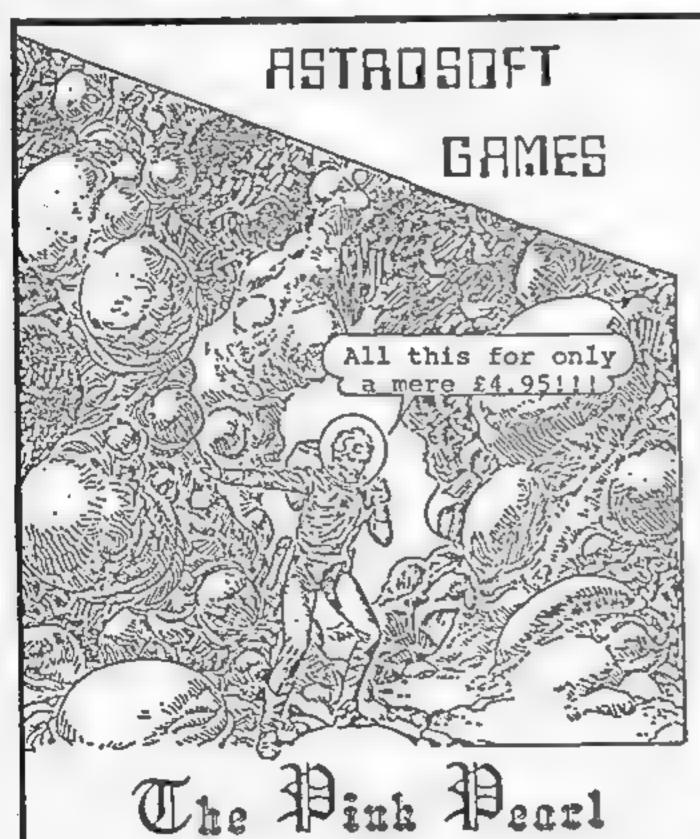
This is quite a nice game with an original theme I found it difficult to keep on the backs of the turtles and consequently tended to end up on one island far from the treasure but feeding myself silly I can see the attractions of opting out and living on a desert island

There are no game control instructions and it took a while to discover how to jump. But all in all it is a nicely written average game, whose strength is the unusual plot. L C.

7()% instructions 60 % 0playability 70% graphics 70% alue for money



ABRASCO ABRASCO THE Grange Barn, Pikes End, Eastcote, Middlesex HAS 26X, Tel:01866 925



- * Over 180 locations
- * A 300+ word vocabulary
- * Over 70 messages
- * Over 60 objects
- * Bags of baddies:

TROLLS, VAMPIRES, PHANTOMS, GHOULS, GOBLINS, DRAGONS, WEREWOLVES, FIZZY VENDING MACHINES, etc,etc,etc,etc!!

- * LOAD/SAVE routine
- QUIT and HELP commands
- Screen picture
- 100% machine code
- 47.8K of SPECTRUM memory!

FREE---All orders recieved before 1st of July will be accompanied by an authentic imitation of the original authentic imitation of the Pink Pearl! Gasp, lucky you!

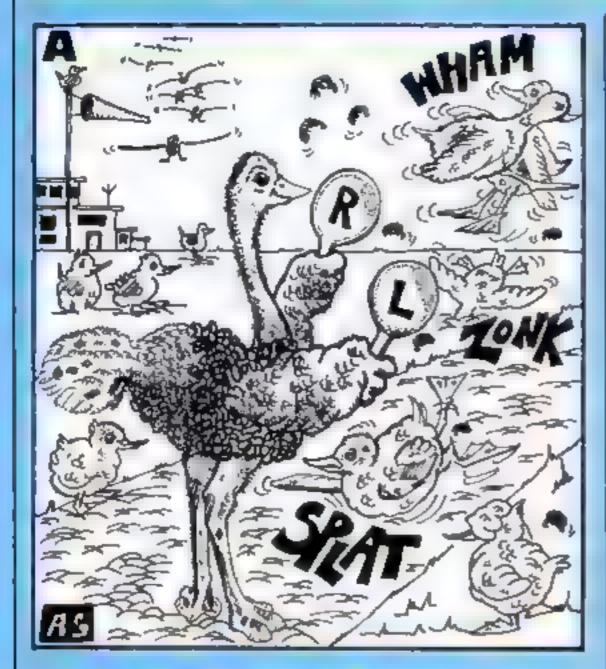
Despatched by first class return of post.

Send cheque/PO for £4.95 to:

Astrosoft 101 Church Road Ferndown Wimbourne Dorset BH229ET

Dealer enquiries welcome

COMPETITION





If your one ambition in life | is to fly, this will set you on the right tracks.

Hewson Consultants is giving away two great games for the Spectrum. Nightflite II and Heathrow Air Traffic Control, to 100 winners of this week's spot the difference contest. As each game costs £7.95, the total value of prizes is more than £1,5001

If you want to earn your wings, practise flying on Nightflite II. Your competence and judgement will be tested to the full in this realistic game. A shifting perspective gives you a lifelike view of runway lights and surrounding houses as you come in to land.

To help you chart your progress, a personal debrief is displayed on screen after each flight. There are (we autopilot modes and a training mode to help you find your feet gradually, and soon you'll be advancing to the top of six levels of difficulty.

Alternatively, if you're scared of heights or prefer to be in control of those at the controls, play Heathrow ATC. The highest rate of nervous breakdowns is reputed to occur in ATCs, so if you want to I

learn the profession without suffering the side-effects, practise as pome

Again, the realism is a star feature. Your display shows a constant radar sweep and you guide down four types of aircraft in one of seven levels of play. If you are a beginner, you can warm up on the demonstration exercise. Radio failure, loss of a runway and rogue aircraft make the game more tense. and exciting - but remember, it's only a game!

Both these simulator games were written by an expert in all three fields - an ATC at Heathrow who's an accomplished computer programmer and flies planes in his spare time! Mike Male is the man of many talents and has written these programs from his own experience of air traffic control and flying.

As well as simulators, Hewson Consultants also has adventures, Quest is the best-known and Fantasia Diamond the newest release --- and areade games like 3D Seiddab (also for the Dragon) and Lunattack. Future plans include software for the MSX and a 3D adventure/arcade game, with the emphasis on the adventure

Heathrow ATC is also available



Hewson Consultants Competition

Entry Coupon

Address	 		ате	N
			ddress _	A

post code

Number of differences found

Complete electly and fully - if you are a winner this will act as a label for your prize. Posto Hermon Comultants Competition, Home Computing Weekly, No 1 Centres Square. London WTR 3AB Closing date first post, Friday July 6, 1984 Don't forget to write flur number of differences on the back of your envelope

on the BBC, Electron and CBM 64. [

week's apot the difference - and win not one but two exciting games, which will give you hours of pleasure and enjoyment - if not celaxation1

How to enter

Study the two cartoons - there are a number of differences between them. Circle the differences on cartoon B and seal the cartoon and coupon in an envelope. Write clearly the number of differences you found on the back of the envelope.

Post your entry to Hewson Consultants Competition, Home Computing Weekly, No. 1, Golden Square, London W1R 3AB. Entries close at first post on Friday July 6.

You may enter as many times as you wish, but each entry must be on an official coupon - not a copy and sealed in a separate envelope.

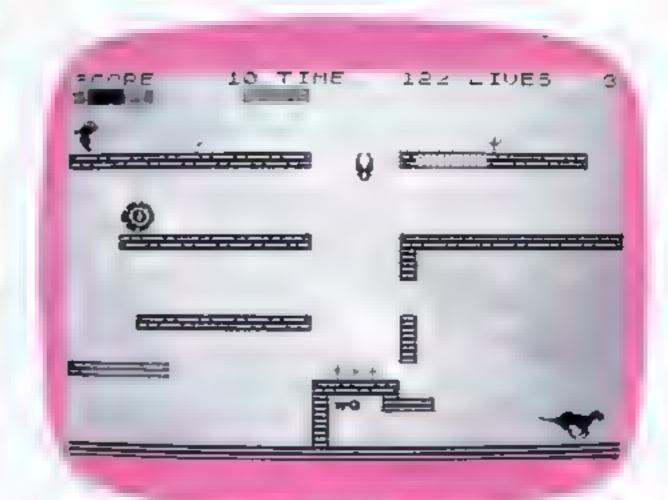
important! please follow carefully the guidelines on entering - incomplete coupons and entries in an envelope with no number on the

back cannot be considered. If you Take control and enter this are a winner, the coupon will be used as a label to send your prize so clear writing is essential.

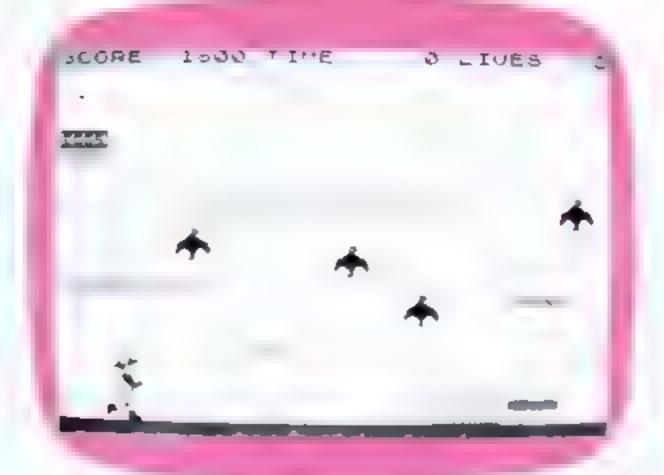
The winners will be the senders of the first 100 correct entries opened at random after the closing dute.

The prizes will arrive from Hewson Consultants Within 28 days of the publication of the issue containing the names of the winners, or earlier. June 1984 Page 15

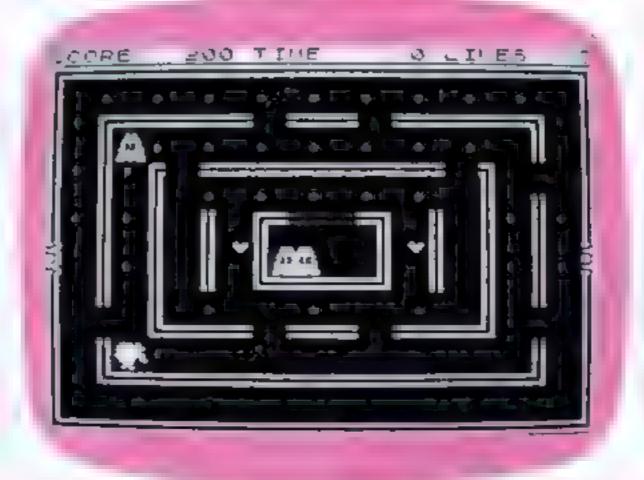




Manic Koa a



Egg Pack



Ms Hortense

All games above were designed and created using 48K Spectrum H U R G

MELBOURNE

The H.U.R.G. competition offers you over £3,000 of prizes for your game designs without the need of any programming knowledge! Only H U R.G. gives you the chance to earn royalties from programs based on your ideas — it's the easiest way to join the software revolution without having to learn how to program!

But you will have to hurry to win the £3,000 prize as the competition closes on April 30, 1984 It's so easy you owe it to yourself to enter your game ideas. Games will be judged on the basis of originality, graphics and playability. Further details are available with every copy of H.U.R.G.

Whether you want to share your game ideas with the world at large or just with your friends and family, HURG is the game design progam for you. At last, the games you imagine can be the games you play!

IGH LEVEL — requires no programming skills — simply design the shapes you want, and H.U R.G. will animate them into the most amazing on-screen action you've ever seen Choose any setting for your game, from mazes to outer space or sinister caverns — the only limit is your imagination

SER FRIENDLY - H U R G will lead you through a series of easy-to-follow procedures, ending in the creation of a game that is as wild as your imagination.

EAL TIME — You can see exactly what you're creating at all times. Every game has hundreds of variations, and you can change its features at any time. You can speed up the action, change the size of the characters and even make them more vicious — it's all up to you, and you can see it all on-screen immediately.

AMES DESIGNER — H U.R G enables you to design and store the games you create on cassette and play them later using H U.R G as the control program. It's the one program you will never tire of.

Now you can create all the stunning arcade effects on your 48K Spectrum that up until now have only been available to professionalsoftware houses.



Orders to: Melbourne House Publishers 131 Trafalgar Road Greenwich, London SE10

Correspondence to: Church Yard Tring Hertfordshire HP23 5LU

All Melbourne House cassette software is unconditionally guaranteed against malfunction.

Trade enquiries welcome.

Please send me your free 52 page catalogue Please send me

SPECTRUM

Spectrum The Hobbit 48X

						7 7	7							7			
	Spectrum Penetrator 4	8K .		+	+ =		ı		+	4					4	.66.5	95
	Terror-Oakkil 40 48K			-	+ 4	i.	d	+ -	4		ı			į.		. 26.5	95
	Melbourne Draw 48K		,	b				p		_	í	į,	d	i.		£8.5	95
	N.J.R.G. 48K	++			+				į.	+ -	p	4		+	p	614.5	95
	Abersoft Forth 48K	401			- 1	+	į.			+ -		i.	h			£14.5	95
	Spectrum Classic Advi	entun	44	ŝĸ			į,							į.	4	£6.5	95
_	Spectrum Mugsy 48K	+		4	+ +		+		+		4	. ,				26.5	95

C14.95

5.95

£14 95

.80

COMMODORE 64

4	THE STATE OF																			
-	Commodore 6	4 The	Hob	bit		4	ı	4		á			+	+	ı	٠		Ĺ	14	95
4	Commodora 6	4 Hus	tgiy	elora	CB		la .		p		ï	á	٠				T :	-	£5.	95
1	Commodors 6	id Hor	ace :	Goes	Skir	ng	+		-1					-		i,		1	65.	95
-	AC05+			, ,				+	d		ï	+	į.	D- 1		4 +	+		83	95
7	Commodore 6	id Çila	ŞLIÇ	Афи	epter	n.				, .	. ,	. ,							26.	95
7	Commodore 6	4 Sta	r Tes	юріг			h	4	0		-		b	+ 1	,			ч	96.	95

VIC 20														
☐ VIC Cosmonauts	 +		,,,				,-		b	4	r a	4	b	1
The Wizard & Princess	+	de q	d	á	b -6	+	ı	ı	+	+		4	p	Ę
ORIC-1														

Conc-1/48K The Hobbit

2010

BBC Model B	The Hobbid.	 h - 1			EL4 95
Alt	The trobust	 Jelauryi ur	to marks on	nard in the	

adventure program. Que lo memory limitations, BBC cassette version does not include graphics

Please add 80p for post & pack

money order for

TOTAL

Please debit my Access card No

I enclose my 🔲 cheque

Expiry Date

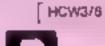
S-gnature

Name .

Address .

Postcode

Access orders can be telephoned through on our 24-hour ansatone (01) 858 7397









Nifty Lifty 32K BBC £5.95

Visions, I Felgate Mews, Studland St. London W6 9JT

With two controls and very quick reflexes you must guide yourself up through layers of shop floors You can move left and right, and are constantly threatened by vertically moving lifts.

The object is to work your way up the screen by running across each shop floor, avoiding the menacing guard-controlled lifts. At the end of each shop floor is un unward pointing arrow and by running into this you automatically climb the stairs. Each screen consists of about 10 floors, and h's not long before the lifts start to crowd you out of the game

The deafening music is immediately recognisable as the 🛴 theme music from The Sting. The problem is that once you have made the sound option your choice is irrevsible

Overall I thought the graphics were great, and I found the smooth movement a pleasure to watch. A fantastic game

After playing I am having second thoughts about who produces quality software for the BBC, I'm sure Visions will soon get its name associated with some of the finest software made for the BBC

mstructions playability graphics Wallie To Linearies

70% 10041009

Visions, 1 Felgate Mews, Studland St. London W6 9JT

This is similar to the good old arcade game Pengo. If you have never heard of this game here is a brief description. You are a cute little penguin, locked in a freezer with those horrid, lethal snow bees. Your only hope of survival is by being a victious little penguin and kicking lee blocks at any of the three snow bees. You can also electrify the perimeter of the freezer so that any snow bees tanding close to the wall get a momentary shock, which will turn into a nasty shock if you

finish him off by trampling over

Visions has produced a faithful version of the arcade original. with many extra features, such as defining your own keys, sound on and off options, and the practice mode, which allows you to play the game without dying

This must be the best version of Pengo currently available for the BBC micro. The added extras and features give this game a really professional finish. M.B.

instructions prayability graphics 100% value for money



Microdeal, 41 Truro Rd. Austell, Cornwall PL25 5JE

novel idea sees Willy the pengain protecting himself and his home from mutant scanons. Willy's house is constructed of blocks of ice which he can use when under siege from the seatons. By kicking an see block in the direction of an advancing sealion the intruder is sent flying and crushed between see blocks

Willy must run up as high a score as possible by walking over the ice blocks, killing all the scalions in the process, and position three magic ice blocks in à straight line. Then you advance to level two. Here the sentions move a little faster until by level five the game is almost- 💅 impossible to play as the sealion. appear much more and travel pround the ice blocks at high

The graphics are excellent, particularly Willy who is E similar to a penguin as he could be. A pause facility is also included which helps when an fritating telephone call threatens to call a halt to a potential high score. This is definitely a fast action game with a lot of fun! D.W.L. -

instructions playability graphics.

859 value for money 80%

Actionpacked arcade games

Fast-moving fun-filled games require quick thought and reactions. Our panel of reviewers have done a trial run — here's their verdict

ream elejes Direction 42 Ex

Microdeal, 41 Teuro Rd, St Austell, Cornwall, PL25 51E

The object of this game is to clear as many boards as possible by running your beamer over blocks. Movement is by joystick and your speed depends on whether a block is in the ly, though it took a long time. direction you are travelling. If there is no block you move thoroughly enjoyed this game slowly. If there is at least one block then you move along an energy beam at twice the normal

The blocks are set out in different designs. There are two opponents. A yellow spinning ring moves about at random and there are chasers which follow you around. Hitting or being hit

by either of these causes the loss? of one of your three lives. The ring can change the blocks to energizers and if you manage to hit one of these your scores are Consider the stant while

vary greatly depending on the distance travelled. Bonuses are awarded for each enervizer hit The top five scores are displayed after each game ends

The program loaded eventual-The screen display is good.

10STructions playability

Gravitor Oric 1/ Atmos 48K £7.50

Severn, 15 High St, 1 ydney. Cloucs OL15 5DP

in Gravitor you control a small spaceship which must be guided from its home base to one of four satellite systems. Here it must collect fuel from four dumps before entering the third stage where more fuel must be itolen. During your mission you are fired at from enemy bunkers and must avoid guarding UFO. However gravity is probably the major problem since you are continually falling back to the planet surface

Control is provided by forward thrust and clockwise or anticlockwise rotation. The ecret revolves round how well; you can control your spacecraft. think this is more for the experienced player, as novices could become very frustrated

The graphics are simple but icar, which is probably best since it is important not to let your concentration wander too far. Sound effects are good and probably help in controlling your ship. As you progress, a further hazard is that you have a limited mount of fuel

If you have tried Super Meteors or similar games, then Gravitor is best described as the graduates' game. A challenge for those brave enough to accept it

VALUE OF STREET praphics value for money

80% 850 7594



609

80%

SPECIAL OFFER

Leave it to experts

I can't resist any longer, I've been wanting to write one of these columns for ages but only today have I felt that not only do I have a strong view, but I want the rest of the world (well, the HCW world1) to hear it

I am a man of many hats (or chairs, if you see what I mean). Besides my teaching post, I also write for this magazine, chair a computer club, work in a computer shop, write software for pleasure and sale, am a youth leader and have a book to write for the autumn, quite apart from reviewing software for HCW. It is in this last capacity that I have become incensed today

Today in the post I received three programs for review. One was produced by a large organisation and two by much smaller outfits, I began to look at them immediately and started to formulate ideas and opinions about them.

The two from the small producers began to play on my mind as the day progressed. I can only presume that both are being marketed by the programmers themselves because I cannot believe that the games would have seen the light of day if they had been offered to a software house of any repute. To put it bluntly, they are pathetic, and even worse, almost laughable in both concept and execution. They are without doubt the sort of thing a magazine editor would have rejected, and yet their authors believe they are going to find a market and make money from such rubbish

Perhaps what infuriated me most was the realisation that they actually might trick some of the buying public into parting with their money. These poor souls would not discover their mistake until later.

This is bad for all concerned. It's bad for the purchaser who looks at other companies' products with a more jaundiced eye next time, bad for the industry which, in the main, tries to offer good products and what's more it's bad for the programmer who dosn't realise that his progamming could develop to a more acceptable level given time and encouragement.

My advice to such programmers is this:

1 Develop your software and then get someone else to test it

for you. Take note of their comments.

2 Revise your program in the light of those comments and then try sending it to a software house. Choose one you admire because of the quality of Us programs. Ask for comments. If you have such a house locally, try going in with the program and gesting someone to tell you what they think.

3 If you are rejected, and remember 90 per cent of programs are, try to improve it again and then resubmit. Alternatively, send it to a magazine and see if it meets their criteria. Many of us start this way and there is money and prestige to be gained

4 If still rejected, try to accept that there isn't a market for your program. Don't under any circumstances try selling it yourself. You could lose money, friends and only gain a great

deal of trouble.

In short, what I'm saying is that large software houses do know what will sell and what won't. They have people to evaluate software, and suggest improvements. They also have the expertise and contacts to sell them in large quantities. All you have to do is accept the royalty agreement and then use the time left to write other programs while waiting for the cheques

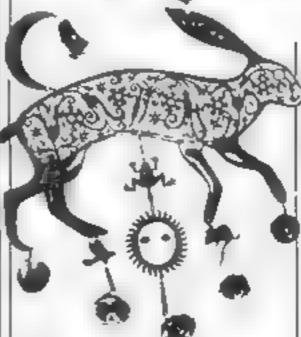
Even very short tips and simple routines can find a home in magazines. Sending in such things will be more lucrative than tying your money up in cassettes and advertising which could never pay off. So do yourself, the public and software industry a big favour and leave it to the experts. Then everyone will benefit!

D.C.

HCW software reviewer

Leeds

£1 off your chance to win the £30,000 hare



This is the final week of our Haresoft offer. Be among the first to join the search for the Jewelled Hare of Masquerade - if you find it, you could be the new owner of a prize worth £30,0001

The clues to the location of the hare are to be found in two adventure games. The first is called Hareraiser Prelude and our exclusive offer entitles you to £1 off the purchase price, by mail order.

You must enclose with your coupon the vouchers from the last two issues of Home Computing Weekly.

The second part, Harerasser Finale, will be available in midseptember. If you participate in our special offer you will be offered the second by mail on the day of issue. However, it does not form part of this offer.

The treasure is not buried in the countryside as in the original book, Masquerade, by Kit Williams; you must pinpoint its location by deduction.

Haresoft will send your tapel to you within five days, and guarantees to replace faulty tapes.

Haresoft is intent on preventing piracy, and copied tapes will not contain all the data. Registration numbers of the two tapes must be held by the winner.

If you win, you may exchange your prize for £30,000 in cash. We're talking big money1

 Hareraiser Prelude may also be ordered at the full price of £8 95, including postage and packing, from Haresoft, P.O. Box 365, London NWI 7JD.

	oft Offer
Tick your computer:	
Commodore 64 48K Spectrum VIC-20 + 16K	32K BBC Dragon Amstrad
Address	
addressed. Haresoft will send your replacement of faulty tapes. Comple used as a label. Post, together	postcode

Look Sharp! 48K Spectrum £7.95

Mirrotsoft, Holborn Circus, London ECIP IDQ

These programs, for age four- to seven-year-olds respectively, deal with short term recall and observation skills. At their highest levels they will tax the most observant adults!

The structure of both programs is the same, the difficulty and subject matter varying with age. A Snap-type game calls for the child, on spotting a match, to press a key; Odd One Out is just that, from a selection of three; Memory presents a whole picture, and the child has to choose various components to remake the picture. There are score keeping

routines and second chances

Both graphics and sound are superb, no review could do them justice. For the younger user, the theme is Old MacDonald's Farm. For the older user, the theme is a selection test for the observer in a space mission. Rockets, aliens, space stations and moon landscapes abound

Two quibbles. Though it looks good, the re-designed character set of the space program really doesn't make reading easy for under 10-year-olds. The needlessly ornate packaging must have put the price up by £1

nstructions	90%
ase of use	950
lisplay	9507
alue for money	85%

D M.

Words and Letters Spectrum £5

Webco, 26 Nuns Orchard, Histon, Cambridge CB4 3EW

Though promoted as compatible with any Spectrum fitted with Interface 1, even a 48K runs out of memory.

The child must type in the missing letter or word in these games. However, the context of the games is unexplained by the instructions, and the screen layout only confuses the issue.

Though the programs are designed for 3-year-olds, the words chosen are totally unsuitable, belonging in the vocabulary of a nine-year-old. They appear to have been selected at random, Introducing speech marks to a three-year-old, as this program does, is

ludicrous. And any teacher knows you don't use capital letters to write whole words.

The letters to be typed are all vowels. Here again, the words in which they occur are totally unsuitable, the vowels to be supplied often break up the vowel digraphs like "ea" in "read", and to cap it all, input an incorrect response and the program chastises you with the ungrammatical "you should Ofpressed...". At least one of the words is mis-spelled.

Not only will this program not run properly, it is educationally, grammatically and linguistically unsound.

D.M.

instructions	3%
case of use	40%
display	30%
value for money	0%



Waves and Pictures Inc sec 19.95

Chalksoft, 37 Willowsea Rd, Worcester WR3 7QP

Educational programs are progressing by leaps and bounds and this program is one of the rare yet growing number of good packages for the infant or preschool age range. The aim of the program is to improve sight, vocabulary by teaching children he menning of a word using protures. There are five programs, a menu and two programs each for the two wordsets.

The Words program introduces a word and shows four pictures. The child moves the arrow until the correct picture is pointed out and then presses the return key. Interest and rewards are provided by the frogs who populate the program and the tune that is played You can select a teacher's record table and enter all the childrens names all one sitting, which means that L. R. they only have to remember how to use two keys. The Sents program presents the same words but in sentences for the child to read. The manual is well written and very comprehensive My only enticism is that the words don't apply to any particular reading scheme D.C

instructions	95%
ease of use	100%
graphics	90) a in
value for money	97%

Follow your micro's micro's instructions

Use your computer as a learning aid. Learn biology or teach youngsters to read, using graphics and games

Words, Words, Words Dragon 32 £10.95

Dragon Data, kenfig Industrial Estate, Margam, Port Talbot, Wales SA13 2PE

This cassette is one of the first in a series of educational software to be released by Dragon Data, strengthening the common benefthat the Dragon is an underrated computer for educational purposes. This program is for children aged between five and eight years.

The program involves recreating a story in graphical form by

somewhere on the screen and

takes its place as part of the story When I say story I mean a simple scenario with several events occurring For instance, in the city scene, once completed, vehicles move along the road, a truck has its load removed by a crane and the clouds start to rain. Eight scenarios are available

The program is graphically excellent using, in some cases, six or seven colours on the supposedly four colour screen Useful as a simple and although lacking in versatility. C.G.

instructions 80% ease of use 65% 90% graphics 90% value for money 65%

Malegy Marinon Lags

Scisoft, 5 Minster Gardens, Eastwood, Noits NG16 2AT

Another very impressive package trom Scisoft. You get a complete set of revision notes, and a revision program containing good advice and useful techniques.

Add to that a series of programs posing multiple choice questions on enzymes and hormones, the ear and the eye botanical terms, the alimentary canal and its associated organs. Each one analyses your responses and gives a list of areas of weakness for further study

Then ponder the program on genetics, in a "supply the genotype from the accompanying data" form, an enormous amount of data being held within the program. Also included is a program on identifying unknown substances, and one on anatomical and botanical diagrams, which also derivers a copy of the diagram to the ZX printer.

To say this is a comprehensive package is an understatement. There is an amazing amount of work and information here. There are one of two quirks in the screen layout, and the Spectrum's graphics capabilities are well stretched by the diagrams. I experienced some difficulty in loading side two None the less, an excellent suite of programs.

D.M.

instructions 100% playability 80% graphics 85% value for money 100%

Special Dragon 32 £8

Microdeal, 41 Teuro Rd, St Austell, Cornwall PL25 53F

A machine code areade game featuring that intrepid hero Cuthbert

This time you have been sent on a looting mission in outer space. First you must collect all the fuel cans from various shelves on each planet you visit. The cans must be collected one at a time and returned to the mother ship. At the same time you must shoot or avoid the police craft There are 15 cans on each planet and Cuthbert only has four lives. The shelves are arranged differently on each planet and you visit them at

random each time you play. I must confess that I haven't yet managed to collect all the cans on one planet so I do not know what happens next

The instructions on the insert indicate this is merely the first step. After this stage is completed Cuthbert then begins looting and that's not all

The game is for one player using either joystick or keys. The graphics are good. Loading was a long slow process, but eventually successful Despite my poor result, I did enjoy playing the game.

J.E.M.

7546

800%

80%

8000

instructions
playability
graphics
value for money

Lone Raider Oric 1/ Atmos 48K £8.50

Severn, 5 School Cres, Lydney, Gloues GL15 5TA

This is a space arcade game similar in its initial screen to Harner or Penetrator, but you are in for a surprise. As the program loads you are presented with a colourful in e page and catchy tune. A nice touch, I thought

After skimming the alien planet surface and destroying everything in sight, you have to guide your ship into the depths of a volcano crater past mines, sharks and other nasties to the final battle on the fourth screen against. Zug's mothership and her attendant tie fighters.

The game's difficult, but is compar be with the PASE jovstick which may help. Using the keyboard I found I could only operate keys singly which can be a little frustrating.

The options mean that the player can control the degree of difficulty to a fine degree. Thus you can tune the game to score heavily in your favourite sections and ease your problems elsewhere.

This is a game which needs a lot of practice but it is addictive and should appeal to all games players whatever their ability

P.S W.

instructions 85% 85% 85% 85% 75% 75% 75%



Space Joust VIC-20 £5.95

Software Projects, Bear Brand / Complex, Allerton Rd, Woolion, Laverpool

From the cassette design, I thought this game would involve space-age knights in armour However, although nicely drawn, the design is totally misleading. Tut tut!

Imagine you control an eggshaped spaceship which bounces , up and down. The opposition is, craft of identical design. Coincidentally both sets of vehicles are v. indestructible except by attack from above. The idea is to bounce on top of the enemy before it bounces on you. If you destroy an alien, it changes into a pod which reverts to it's original form if you don't jump on it a rst As in all games of this. genre, you have to survive as many waves of aliens as a possible

For some reason, the programmer has only included a joystick option, so if you don't have a joystick, forget it.

The graphics and sound in this game are well above average and movement is smooth and fast. So, I have mixed feelings over this game. Whilst it is nicely written and quite testing, it is also utterly boring

Whilst it's not my cup of tea, I am quite sure that many lovers of tahen destruction will enjoy it A.W.

instructions case of use graphics value for money 60% 75% 75% 80%

Journey into space

Travel beyond this galaxy in this set of space-age games. Explore the furthest regions of the universe

Arena 3000 Oric 1 £5.50

Microdeal, 41 Truro Rd, St Austell, Cornwall PL25 5JE

You are in an arena with various other combatants to overcome You have a fast firing weapon and can move across the screen in eight different directions, fring as you go Some enemics follow you while others float by harmlessly, but do not be decrived. There is definitely a need for a tactical approach and you can manoeuvre the enemy into a position where you can blast a dozen or more in one go Having cleared one screen you enter the next gladuators's arena

Oric's high resolution screen is employed and colour and, in particular, sound effects are put to good use. I especially liked the

smooth movement. Huge scores can be achieved anthough I thought the Hall of Fame was less than spectacular.

Only slow recorded programs are available, but these are not too long, since the game is written for both 16K and 48k machines

Although quite simple I think this is a well constructed game, and Microdeal also offers an aitractive back up with the Cuthbert Club. The lucky owner automatically becomes a member of the club and will receive a badge.

P.S.W.

instructions
playability
graphics
value for money

85%

75%

90%



Microdeal, 41 Truro Rd, Si Austell, Cornwall PL25 5JE

The object of Cu hbert's walkabout is to light up all the squares on the lunar pad. You are faced with a large grid of squares and, using the joystick, must direct Cuihbert around activating light switches at the four corners of each square scoring 10 points per switch and 50 points when the whole square lights up. After lighting the entire grid (score 1000 points) you proceed to grid 2 and start igain. Sounds easy? Well it's not

Cuthbert is hounded by a group of ruthless moramans, semi-intelligent beings who try to bump off poor old Cuthbert. If Cuthbert takes too long the chief moraman appears. He is more intelligent, quicker and more difficult to avoid. Cuthbert can leap over any morantans approaching him but must take care not to jump too soon. The moramans do not take kindly to him landing on their heads

A rather repetitive tire accompanies what is a reason abiy good game. I like Cuthbert, a lovable little character who could devetop a real cultiollowing. Oh, and you car record your high scores in Cuthbert's Hall of Fame

D W.L.

instructions
playability
graphics
value for money

70% 75% 90% 75%



15K ZX**0**1

Here is a selection of titles will available for ZX81 Send s.a.e for disstrated catalogue These are the ZX81 equivelents of the Spectrum sprograms described above Although aimiler in concept the specifications fall short of the descriptions given for the Spectrum. "FOOTBALL-LEAGUE"

Forerunner of "Day of the Metch" £4.00 TEST MATCH

Forerunner of "Ball by Ball" €4.00 VIDEO SOFTWARE LTD.,

Stone Lane, Kinver, Stourbridge, West Midlands Telephone: 0384 872462

SOFTWARE FOR SPECTRUM AND ZX81

48K SPECTRUM "Day of the Match"

Fascinating and realistic simulation of an entire football season. Name your own teams if you wish. English league provided on cassette). Rate each team from one to nine in various success categories such as attack, defence, manager are. Watch the sesson unfold, includes knock-out oppon.

"Bell by Ball" Simulates a test match sense of one day international series. Set up your own teams. and pool of players (England v Australia provided). Rate each player's capabilities as batsman and bowler on a one to nine scale. for qualities such as talent effort etc. Pick your teams and play the match. Bectronic scoreboard shows progress of a metch. Full



FOR THE BEST 1-99/4A SOF



ADVENTUREMANIA BASICI NO COMMAND MODULE NEEDED HOW GAVE THIS FULL GRAPHIC AND TEXT ADVENTURE 4 STARS CAN YOU DISCOVER OLT MATE QUEST IN THIS SPECTACULAR MISSION 30 LOCATIONS

MANIA BASICE NO COMMAND MODULE NEEDED HOW GAVE. & STARS AND SAID "I WOULD CERTAINLY BUY MANIA FULLY GRAPHIC AND YEST CAN YOU SURVIVE IN MAJNA AND ESCAPE TO THE CORRIDORS OF TIME

LIONEL AND THE LADDERS. ENTENDED BASIC CAR HIDGE MERDED HE VERY BEST SPRITE GRAPHIC ADVENTURE YOU HAVE EVER BEEN ON YOUR THIR 4A. HELP LIONEL AS HE JOURNEY'S THROUGH THE LABYRINTH IN STARCH OF MS PRINCESS BUT MAKE SURE HE DOES NOT GET CAUGHT CAPTIVATING AND SPECLBINDING.

NEW RELEASE

BENEATH THE STARS 1945(C) FULL ARCADE ACTION DEFEND AND MAINTAIN YOUR SPACE BASE & CONTROL KEYS TO KEEP YOU BUSY

TELEPHONE FOR DETAILS

At your dealer now or -

Mail order by return post free! Send PO/Cheque to:



Games to remember from

SOFTWARE

Telephone 05806 4726

Cranbrook Road, Tenterden, Kent TN30 6UJ

TEXAS OWNERS GET INTO PRINT

At last, a 40 column thermal printer that just plugs into the right hand port on your TI-99/4A. List from Basic, ExBas etc. Works with any module that asks for printer, e.g. PRK, Household budget etc.

£145.00 inc VAT & carriage

Order to Arcade Hardware, 211, Horton Road Fallowfield, Manchester, M14 7QE Access orders to 061 225 2248

Wide range of modules also available.

U.S. SCENE

Teachers go on-line

Using SchoolNet, on-line teachers all over the U.S. can compare notes. This network is designed similarly to The Source and CompuServe (the nation's two best known networks). A national system of computers with local access in major cities offers subscribers virtually instant access to an electronic-mail service with other capabilities too.

Through SchoolNet, teachers can present their views on various educational issues and problems, post their opinions on educational software, supplies, suppliers, and so forth. For an additional fee, teachers can take advantage of an on-line consulting service for professional advice as well as being able to receive opinions from some very well known and highly respected computer consultants.

They can also arrange and participate in on-line conferences which can link educators from anywhere in the country, and offer each an equal chance to participate. To get on-line, the initial fee is \$200, plus an annual subscription fee of \$100, and a \$10 charge, billed monthly, for use of the network uself.

If you are interested in further information, contact SchoolNet, c/o Techware Telecommunications Services, 474 Wilamette Street, Sutte 201, Eugene, Oregon 97401, (503) 484-0520.

食の食の食の食

Comprende Ingles? You need no longer be an international language master to participate in foreign dealings if you tie in to Linguanet, the U.S.'s first foreign language translation (computer) network

This service was recently formed by Agnew Tech-Tran and the famous Berlitz Translation Services. The network is comprised of foreign language translation centers in seven U.S. cities linked by telephone communications lines. The translation work is actually performed by human beings, but is all computer-assisted. Services available include translation of sales, advertising, and technical material into any major foreign language: computerized foreign language typesetting, layout, and production of printed materials; foreign language narrative development for movies and videotapes; provisions for multilanguage teleconferences.

To use the system, an interested party need only contact the service by computer and modem and can lie right in to their word processor. If you are interested in further details, contact Linguanet at 3345 Wilshire Blvd., Suite 410, Los Angeles, California, 90010. (213) 380-1144.

From Futurehouse Inc., comes an interesting program for the Commodore 64 and Atari 400/800 compatibles. Called Alphabet Construction Set, this program uses a light pen, an arcade video game-like setting, and computer voice to teach children how to draw the letters of the alphabet. After input, the program points out mistakes, records the child's performance, and makes suggestions for improvement. This program is part of a line called Playground Software which emphasizes interactive learning coupled with ease of use and a sense of fun-See your local software dealer for details.

That's it for this week. See you next time

Bud Izen Fairfield, California



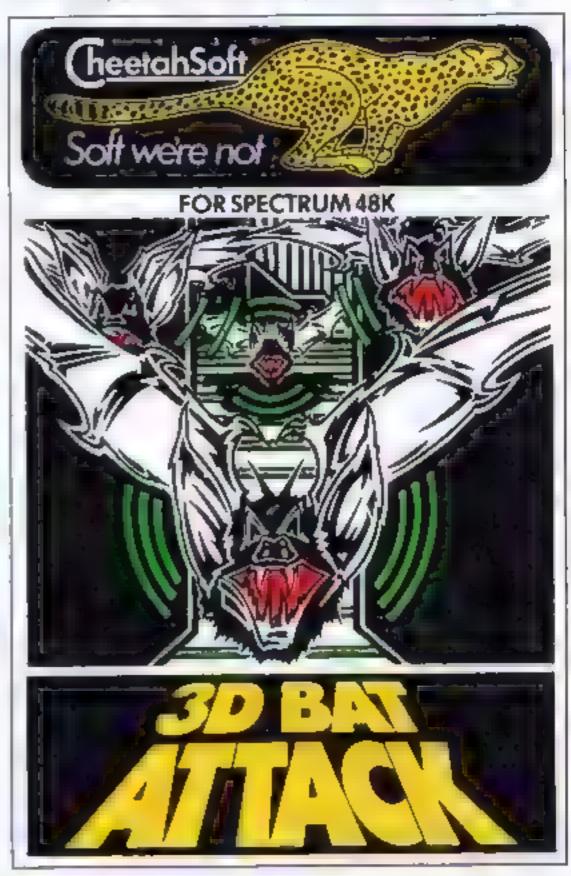
CONQUEST A tactical game which even voteran players will find both challenging and rewarding

Mediter lanean Europe is divided into grid squares. Your aim as Emperor is to gain 100 squares of territory as quickly as possible liat the same time dealing with Barbarian counter affacts pragues, civil war and rival Emperors.

5 leve's of skill plus a continuous. Conquest, game where a the difficulty leve's are thrown intogether.

3D BAT ATTACK An all action 3 dimensional maze game where you gather up blocks of gold, at the same time pitting your wits against vicious vampire bats whose only purpose in life is to locate, bunt and kill you

A levels of ski. At each eve, the game gets faster and more complicated, and the vampires more dangerous.





Wild West

gunfight

Get trigger-happy and riddle your opponent with bullets, while dodging his fire in this game by Massimo Lenza

Okay, pardners, reach for your guns! It's a shoot-out!

Play with a friend and find out who's quickest on the draw. Fast reactions are essential, so let's hope your brain and finger

Variables

SC score LS score

AS keyboard input

A position of left cowboy

X,Y positions of bullets

B position of right cowboy

co-ordination is up to standard.

Not only must you shoot your opponent, but you must also dodge bullets whistling past you. Move up, down and down two spaces at a time. Whenever you hit the mark and wound your foe you gain a point. Get ready to fire - the winner is the first to reach 20 points.

Keys to use: left cowboy: q up, w down, e down two at a time, f fire, Right cowboy: I up, o down, p down two at a time. k fire.

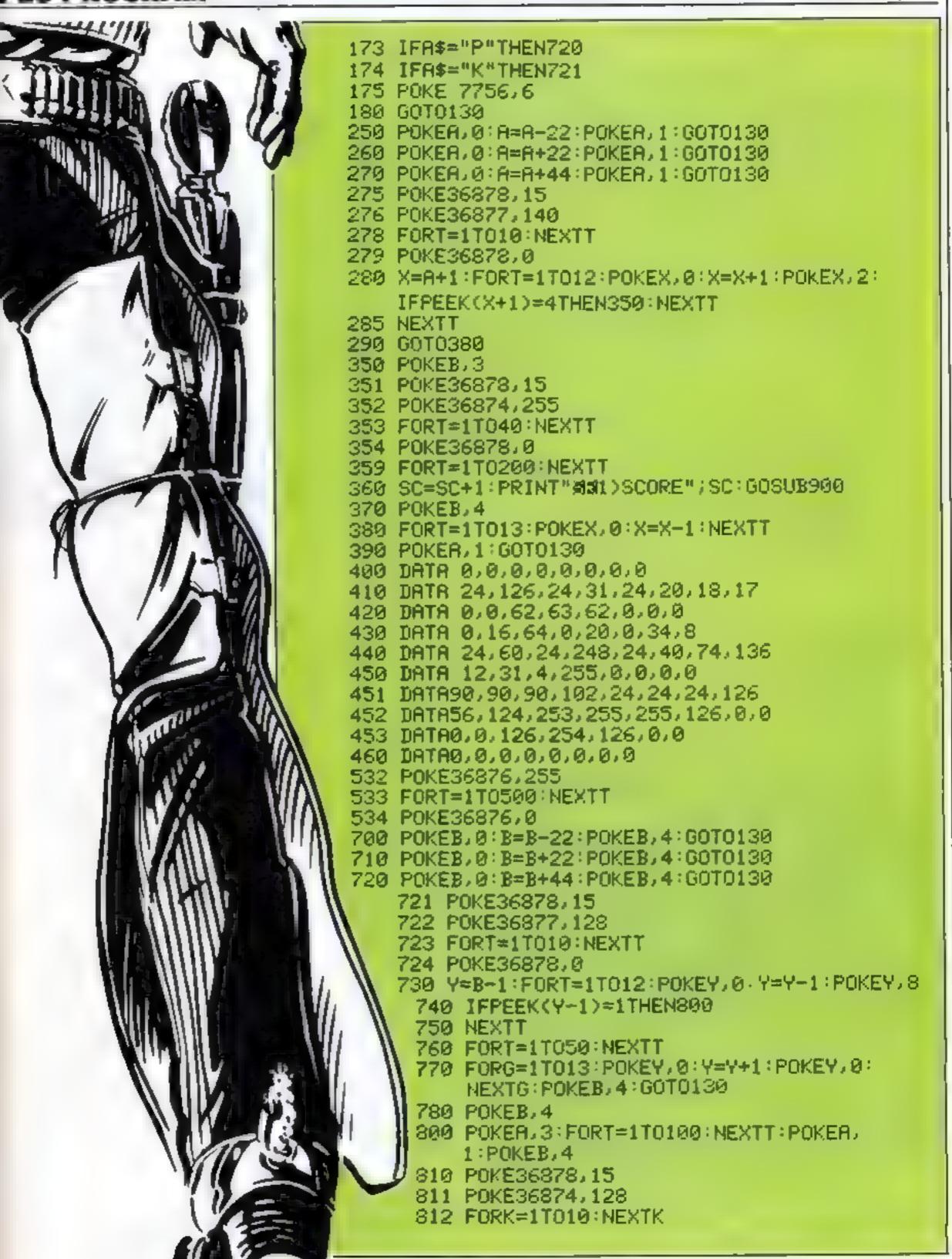
How It works

- 6 set up user-defined character mode.
- 8-12 put auto repeat on all keys. change screen to all black
- 45-78 put cactus trees and barrel
- on screen 80-116 put cowboys on screen 130-174 check the keyboard for
- keys being pressed 175 put another cactus tree on
- 250-270 move left cowboy up
- and down screen.
- 275-279 sound of gun 280-285 move bullet from left
- cowboy 350-354 kill cowboy
- 360-370 add one to score, put other cowboy back on screen
- 380-390 put builet back in original position
- 400-460 data for user-defined characters
- 532-720 move right cowboy up and down screen
- 721-724 sound of right cowboy's
- 736-750 move right cowboy's builet across screen
- 760-770 put bullet hack in original place
- 78-814 kill left cowboy, add one to right cowboy's score

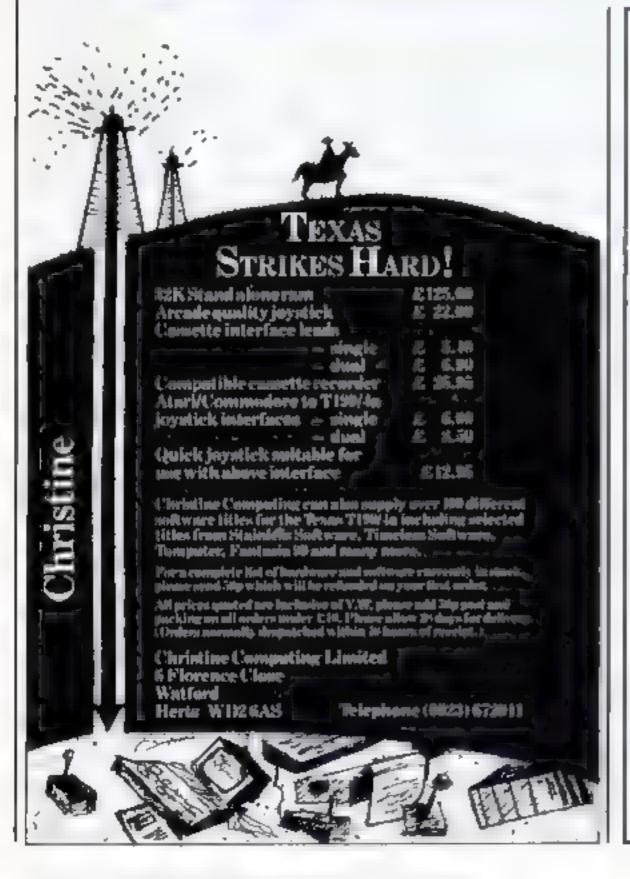
- 5 REM GUNSLING
- 6 POKE56,28 POKE36869,255 FORT=7168T07168+(9*8)
 - :READA:POKET,A:NEXTT 7 CLR
- 8 POKE650,255
- 11 FORT=7680T08185:POKET,0:NEXTT
- 12 POKE36879,8
- 65 FORT=1TO1000:NEXTT
- 66 FORT=7680T08185: POKET, 0: NEXTT
- 75 POKE7756,€
- 76 POKE7984.6
- 77 POKE7781,7
- 78 POKE 7763,6
- 80 A=7905
- 90 POKEA,1
- 100 B=7917
- 110 POKEB.4
- 130 GETA\$:IFA\$=""THEN130
- 140 IFA\$="Q"THEN250
- 150 IFA\$="W"THEN260
- 160 IFA\$="E"THEN270
- 170 IFA\$="F"THEN275
- 171 IFA\$="I"THEN700
- 172 IFA\$="0"THEN710



C-20 PROGRAM



UNEXPANDED VIC-20 PROGRAM 814 LS=LS+1:PRINT" SPENDED DE LE DE LE CORE"; LS 813 POKE36878,0 900 IF SC>19 THEN PRINT" KNOW COMEON ONE WINS" GOTO920 899 REMERVS ONJEZ CRSR DOWNIEZ CRSR RIGHT] 815 GOSUB 960 816 GOT0770 919 REMIRVS CHITCHER DOWNIES CREE FIGHTI 920 PRINT" THE PRESS 'S' KEY" 930 GETA\$ IFA\$=""THEN900 940 IFA\$="S"THENRESTORE GOT0950 959 REMERVS ONICE CREE DOWNIEZ CREE RIGHTI 945 GOT0930 960 IFLS>19THEN PRINT" THE WINS 979 REMERVS ONITCRSR BOUNTES CRSR RIGHTI 980 PRINT" SUPPRESS ANY KEY"



990 GETA\$ IFA\$=""THEN990

1000 RESTORE

1010 GOTO6

1020 END

MILES BETTER SOFTWARE 221 Cannock Road Chadsmoor Cannock, Staffs WS11 2DD TEL 05435 3577

U.S. GOLD SOFTWARE	CASS	DISC
Beach Head £	9 00	12.00
Solo Flight £1	4.00	14.00
Dallas Quest £		12.00
Bruce Lee £	9.00	12 00
Astec Challenge £	8 00	12.00
Forbidden Forest £	8.00	12.00
Pooyan£	9 00	12.00
O'Riley's Mine £	9.00	12.00
Slinky £	8 00	12.00
Caven of Khafka£	8.00	12.00
54 HARDWARE		
1541 DISC DRIVES	£1	99.00
1520 PRINTER-PLOTTER	E	99 00
64 Accelerator Load and Save 10 times normal cassette speed only		26.93
Phone for software list for	the	64

Coming soon Firefox

a 3D Scramble for the 64

Pikabee Software TI-99/4A

PKD1: GRAPHICS CREATOR & SCREEN EDITOR

This highly praised utility program makes the creation of graphies and large screen layouts quick and simple. Commands include MIRROR, ROTATE INVERT and many more. HCW No. 54 said "A Must For all TI Owners". Instructions 100% Ease of Use 95% Display 95% Value for money 95%. Price includes full instructions and I sets of demographics

PKD2: MUSIC MAKER by David Martin TI-LL DO by Roy Hollingworth CHARSET ONE (801 D)

Three high-quality programs on one tape. MUSIC MAKER is a novel way to play with TI's sound. Notes are entered onto 2 musical staves and can then be edited in different ways. They can be played back with 1, 2 or 3 voices or with air echo Many commands. Full instructions and demonstration tune included. The LUDO is a classic version of the classic board game. You can play your friends and/or the computer 1 to 4 players can take part. CHARSET ONE (BOLD) is a complete ready-to-use character set which will enhance your own programs 100%

PKD3: RIVETS! by John Haworth

CHARSET TWO (PICA)

Areade action with Rivers! You have to pick up all of the rivers left lying around by your workmates. The boss is timing you so you had better be quick. Beware the banana skins and don't sun loo quick as it's a long way down to the ground 5 skid levels. 21 floors. Timer, "This is a must for all game players." CHARSET TWO (PICA) is the second off-the-shelf character set for your own games Instructions included

PKD6 ESCAPE FROM MICA! by B Dhooper

This has to be the most addictive areade game yet for your unex-TI-99/4A1 You've been captured by the Count of Mica. To secure your release you have to collect valuable items from 3 fields. These fields are guarded by a terrifying monster who eats people like you for dinner!!! The Count has given you 4 Hyperspace pills — use them wisely. This is a very entertaining game with 4 skill. levels, animated running, good graphics, sound and a High-Score table. Not to be missed1

All cheques, PO's Mg... In Pikabee Software 35 Parker St PRESTON Lancs PRIZAH

SAVE £ £ ££'S ON THESE TI-99/4A GAMES

Hunchback Havock (BASIC) 45 95 Daddle's Hot Rod (BASIC) thru four castite and 24 different sheets. Superb graphics and great fun

MAYER

The Black Tower (BASIC)

ade action to TI-BASIC! Race with Egor Drive through sheep fields, woods, over rivers and avoid all obstacles, then pick up fivers and avoid all obstacles, then pick up furth-hiters down persionally switting roads

SASE EL

Builder/Minefield (RASIC)

Two great games in one Builder drive a Unlock the mysteries of the black tower and rescue the Lady Gwen in our latest full 16K. truck, pick up bricks and build a wall but adventure. Addlessve and entertaining. watch the obstacles. Minefield, drive a tack through a minefield while being shelled

SAVER

Runner On Treiton (BASIC)

45 95

Battlestur Attack (EXT-BASIC)

graphies adventure requires skill and a good graph, v. Ht. W. und: "even at level one a

You are on the planet Treiton your task is. Stop the battlestar before a blows up your to collect jewels. This semi-text, semi-home plane. A fast game with excellent very addictive game'

MASE EF

SPECIAL OFFER

You've seen the reviews, your know the quality of Lantern Products. Mention this ad when ordering any of the above games and you will only pay £4.95 per title!

Don't delay - order now! Offer ends 31st July.

Sand cheque or PO. to

LANTERN SOFTWARE,

4 Haffenden Road, Tenterden, Kent TN30 6QD

or SAE for full list. Look out for our products at your TI retailer.

SUPER SAVERS

	AAP	PRICE		яяр	QUA Paile
OMEGA RUN	£7.95	08.95	FLIGHT SIMULATOR	19 95	€8.70
GLUG GLUG	£5 95	15.20	OMEGA RUN	£7 95	£6.95
OL YMPICS	(5 95	£5.20	BUMPING BUGGIES	£1 7-3	£6 15
JUNGLE FEVER	66 90	26.10	FLYING FEATHERS	66 99	06 15
SKULL	£6 95	£8 15	WHEELIN WALLY	£7 00	DB 15
BARRELDROP	CS 95	£5.20	CHINA MINER	£7 00	€6.15
CHUCKIE EGG	£7 90	26.96	GET OFF MY GARDEN	£7 00	06.15
KAMAKAZI	E6 90	DB 10	BURGER TIME	£7 00	£8.15
BLADE ALLEY	£5 95	15.20	FABULDUS WANDA	£7 95	€6.95
EIGHT CYCLE	£5 95		CHUCKIE EGG	£7 90	€6.95
	£5 95	\$ 20	SPACE PILOT	£7 95	£6 95
SLAP DAB	€5 95	£5.20	FLIGHT PATH 737	€7 95	€6.95
MOON BUGGY	25 95	£5.20	CYBOTHRON	£7 95	€6.95
VIC 20					
SLAP DAB	\$5.95	\$5.20		£7 95	£5 95
000	\$5.95	€5.20	SKRAMBLE	€7 95	£6 95
FALCON FIGHTERS	E5 95	£\$.20	THE PITZ	£6 00	£5.25
FROG RUN	£5 95	05.20	THE DUNGEONS	£5 95	£5.20

POST & PACKING FREE SEND CHEQUES/P.O. TO: FOR COMPREHENSIVE CATALOGUE SENO S.A.E. TO:

W-110MI

16 COATES CLOSE

BRIGHTON HILL BASINGSTOKE RG22 4FE

TEL: 0256-51444



The Punters Computer Program

COURSEWTS SER allows you to use the power of your computer to get the edge on the bookmaker

 COURSEW INNER contains a database full of detailed. information on as English and Soutish the courses. The ten teadure tookeys and trainers, and effect of the draw is detailed for each course.

This information can be displayed on the screen at any time The pringram analyses these factors combined with the results.

of the last three outlings, starting price and weight carried COURSEWINNER is sample and quick to use, yet very powerful

Howed with detailed instruction bookler

Price £12.50 att inclusive IMMEDIATE DISPATCH RETURN OF POST

SPECTRUM 46K BIK B COMMODORE6G DRAGON, APPLERAIG ATARTAIK

The Ultimate Pools Prediction Program

- POOLSWINNER is the most sophisticated pools prediction. aid ever produced. It comes complete with its own massive.
- Can be used for Scoredraws, Draws, Aways and Homes.
- The database contains over 20000 matches. 10 years league. football). It undates automatically as results come in
- The precise prediction formula can be set by the user. This: allows development of your own usaque method
- Package is complete with program, database and detailed. anstruction booklet

Price £15.00 all inclusive ammediate dispatch reference post. Available for SPECTRUM 40C., ZN81 16K BBC B., COMMODORE 61, DRAGON APPLE ILITE ATARL 48N

Available to a mission to choose the common of most from







37 Councillor Lane, Cheadle, Cheshire, Phone: 061-428 7425

Symbol and valency test by lan Goldsack

With exams approaching, this short test on the symbols and valency of 32 elements and simple compounds is a very useful and effective revision aid. It covers most of the common elements used for practical experiments in the classroom. The program also includes several compounds, such as sulphate and nitrate, which are often needed when calculating formulae. It covers a maximum of two possible valencies, and does not distinguish between positive and negative valencies.

Control characters

150 Clear home, reverse text. cyan text, SHIFT: SYMBOL & VALENCY TEST, green text, cursor down, cursor down

210 SHIFT: S 230 SHIET: V

2010 SHIFT H.H. 2020 SHIFT L.L

2030 SHIFT: 5,N 2020 SHIFT 1...L

2030 SHIFT S.N 2040 SHIFT P.K

2050 SHIFE S A 2060 SHLET C.C

2070 SHIFT M.M. 2080 SELLE C.C 2090 SHIFT EF

2100 SHIFT B.B 2110 SHIFT Z,Z 2120 SHIFF N.N.

2130 SHIFT T,S 2140 SHIFT 1,P

2150 SHIFT M.H 2160 SHIFT A.A.

2170 SHIET C.C 2180 SHIFT B.B

2190 SHIET 1.1 2200 SHIFT N.O. 2210 SHIFT BCO

2220 SHIFT H.S O

2230 SHIET O.H 2240 SHIFT 0.0

2250 SHIFT 5 S 2260 SHJFT 5,O 2270 SHIET CO

2280 SHEET 5,0 2290 SHIFT N N

2300 SERFT P P 2310 SHIFT ((2320 SHIFT 5.5

This program operates in lower and upper case and in some graphics mode. This is entered with PRINT CHR\$(14), by using PRINT CHR\$(8), it is possible to disable the changing

Variables

I reference of elements of arrays during FOR...NEXT loop underlines element

D time detay FOR .NEXT loop A is valency correct? 0=YES I = NO

V answer to valency.

ES(X) element name SS(X) symbol of element

V1(X) one valency of the element **V2(X)** second valency of the eternent

How it works

1-12 RFMarks

50 set volume

100 clear screen and set screen mode

110 DIMension arrays

120-140 READ data into arrays 150 PRINT title

160 choose random number 170-200 PRINT element and

underline it 210-220 INPUT symbol and

check answer 230-270 INPUT valency and check answer

290 time delay - 2 seconds 300 return to PRINT title

1000-1048 give a bleep if answer is incorrect 2000-2320 data for arrays in the

format ELEMENT, SYM BOL, VALENCY, OTHER VALENCY

of case when the shift and Commodore keys are depressed simultaneously. This means that the mode cannot be changed by accident.

Hints on conversion

I have tried to write this program in a way which makes it easy to convert for any BASIC mucrocomputer. The only machine which will present serious problems is the ZX81, which does not have the READ or DATA commands

A list of the control characters is given, and this will be of great value if you are attempting to

convert the program

Lines 1000 to 1040 define an envelope and create the sound On some machines it is possible to achieve this with only one or two statements. For example, on the BBC this could be replaced with.

ENVELOPE 1,128 1,-1,1,70,100, 0.-20.-5.126.0: SOUND 0.4. 100.40

There are one or two character numbers and pokes which must be known when trying to convert this program. These are listed below

POLE 54296,15 set the volume to its highest level

PRINT CHRS(147) clear the screen, leaving cursor in top eft corner

PRINT (HR\$(14) enter lower and upper case and some graphics screen mode

PRINT CHRS(8) prevent the user from accidentally changing mode from the keyboard

Grand Hattomal by Darren Gray

Pick one of five horses to win the Grand National, and put your money where your mouth is. You have £200 to bet and it is up to you to calculate all the risks and shell out the readies when the odds are good

Who will be the favourite? You have a choice of Red Rum, Luck Vane, Grittar, Ben Nevis or Hallo Dandy. The going is good, so get ready to place your bets.

If your chosen horse loses the race, you forfeit your wager. you fall below the £50 level



that's the question

64 PROGRAM

```
10 DATA0,160,48,0,144,60,0,160,63,0,128,63,0,160,240
20 DATA0,171,48,0,160,48,0,160,240,15,171,240,63,235,240
30 DATA63,251,240,15,251,255,15,250,255,15,63,195,15,3,3
40 DATRI5, 3, 11, 60, 195, 8, 48, 195, 0, 48, 227, 0, 56, 35, 128, 8, 0, 128
50 DATAO, 160, 48, 0, 144, 60, 0, 160, 63, 0, 128, 63, 0, 160, 240
60 DATA0,171,48,0,160,48,0,160,240,15,171,240,63,235,240
70 DATA63,251,240,15,251,240,15,250,255.15,207.255,63,0,195
80 DATA255,192,195,240,192,203,60,240,200,15.56,192,3.136,224,0,128,32
85 REM### SET UP SPRITES ###
90 FORT=0T062 READA POKE12288+T,A MEXTT
100 FORT=0T062 READA POKE12352+TJA-NEXTT
110 V=53248.POKEV+21,31:POKEV+28,31:POKEV+37,0 POKEV+38,0
120 POKEV+39,1:POKEV+40,3:POKEV+41,13:POKEV+42,15 POKEV+43,7
125 REM*** INSTRUCTIONS ***
130 PRINT"3" POKE53280,15 POKE53281,15 PRINT"3 DEPENDANTHE GRAND NATIONAL"
140 PRINT"SPANNING
150 PRINT" NOMEN THIS GAME YOU PLACE A BET ON"
160 PRINT"MANY OF THE 5 HORSES WHICH ARE"
170 PRINT"M1-RED RUM"
180 PRINT" 12-LUCK VANE"
190 PRINT"M3-GRITTAR"
200 PRINT"MM-BEN NEVIS"
210 PRINT"▶5-HALLO DANDY"
220 PRINT" WITTE IN THE HORSES NO. AND HOW MUCH."
230 PRINT"MYOU START OFF WITH 200 POUNDS." G=200 REM G=YOUR MONEY
240 PRINT" SMALLEST FET IS 50 POUNDS.ENTER YOUR BET MNOW"
250 INPUTA, B IFB>GTHEN GOTO250
253 IFBK50THENGOT0250
255 REM***SET UP SCREEN***
260 PRINT"INDIATHE GRAND NATIONAL "
270 PRINT"SREDICT
275 POKE53280,5 -POKE53281,5
280 FORT=55536T056056:POKET,2:NEXTT
290 F0RT=0T0291P0KE1264+TJ114 F6ME1384+TJ114 P0JE1564+TJ114 P0KE1624+TJ114
295 POKE1744+T,114:NEXTT
300 PRINT" SIGNALANIAN 1 ALAM PANGENSIAN 4 ALAM 5"
302 PRINT"S" PRINTSPO(31)" NAMED FRANKII DAMEN NAMED DAMEN"
305 REM***MOVING HORSES***
310 Y1=100 Y2=125 Y3=150 Y4±175 Y5=200 P=192
320 POKEV+1,Y1:POKEV+3,Y2 POKEV+5 Y3 POKEV+7,Y4:POKEV+9,Y5
330 X(1)=50:X(2)=50:X(3)=50 X(4)=50 X(5)=50
335 8=54272
340 F=INT(RND(1)*5)+1
345 PGKES+24,15 POKES,220:POKES+1,68.PGKES+5,15:POKES+6,20 :POKES+7,120
348 POKES+8,100:POKES+12,15:POKES+13,215
350 POKEV,X(1) POKEV+2,X(2) POKEV+4,X(3) POKEV+6,X(4) POKEV+8,X(5)
360 LETX(F)≃X(F)+4
370 FORT=0TO4 POKE2040+T.P NEXTT P=P+1 IFP=194THENP=192
380 IFX(F)>250THEN60TG580
385 POKES+4,129 POKES+4,128
390 GOTO340
500 POKEV+21,01PRINT"紅槭咖啡HE HORSE IN LANE "、F、" WON"
510 IFF=ATHENPRINT"K₩N YOUR HORSE WON THE RACE" G≒6+B:
520 IFFKDATHENG=G-B
530 PRINT"XXX YOU HAVE ";G;" POUNDS LEFT"
540 IFGK50THENSOT0560
550 POKEV+21,31:POKEV+28,31:GOTO240
560 PRINT"DINNYOU HAVE NOT GOT ENOUGH MONEY LEFT TO
                                                        MAKE A BET"
570 PRINT"DEDDEDDEDDEDDEDDEDDEDDE GOODBYE : ! !"
```

COMMODORE 64 PROGRAM

```
2200 DATA "-NITRATE","/T3",1,1
       ******
1 REM
                            2210 DATA "-HYDROGEN CARBONATE", " HT3", 1, 1
2 REM
                            2220 DATA "-HYDROGEN SULPHATE"," (♥厂4",1,1
3 REM
          SYMBOL &
                            2230 DATA "-HYDROXIDE", "F |",1,1
4 REM
      * VALENCY
                            2240 DATA "FXYGEN","[",2,2
5 REM
         TEST.
                            2250 DATA "♥ULPHUR","♥",2,2
6 REM
                            2260 DATA "-SULPHATE", "♦F4", 2,2
7 REM
      * BY:
                            2270 DATA "-CARBONATE", "-F3",2,2
      * I.GOLDSACK
8 REM
                           2280 DATA "-SULPHITE", "♦F3",2,2
9 REM
           1984
                           2290 DATA "/ITROGEN", "/", 3,3
10 REM *
                           2300 DATA "THOSPHORUS","T",3,5
11 尺巨門 米沐米米米米米米米米米米米米米
                           2310 DATA "-ARBON","-",4,4
12 REM
                           2320 DATA "#ILICON", "#I", 4,4
50 POKE 54296,15
100 PRINT CHR$(147); CHR$(14); CHR$(8)
110 DIM E$(32),S$(32),V1(32),V2(32)
120 FOR I=1 TO 32
130 READ E$(I),S$(I),V1(I),V2(I)
140 NEXT I
150 PRINT "III ♥ NITL & X★LT/-||T♥|
                                                       TOU
160 LET I=INT(RND(I)*32)+1
170 PRINT E$(I)
180 FOR X=1 TO LEN(E$(I))
190 PRINT "-",
200 NEXT X
210 PRINT:PRINT:INPUT" #YMBOL >";S$
220 IF S$<>S$(I) THEN GOSUB 1000:PRINT " "S$(I)
230 PRINT: INPUT "XALENCY >"; V
240 LET A=0 IF V<>V1(I) AND V<>V2(I) THEN GOSUB 1000 LET A=1
250 IF A=1 THEN PRINT " "; V1(I) IF V1(I)=V2(I) THEN 60T0 280
260 IF V<>V2(1) THEN PRINT " OR"; V2(1)
270 IF A=0 AND V<>V1(I) THEN PRINT " OR"V1(I)
280 PRINT
290 FOR D=1 TO 2000:NEXT D
300 GOTO 150
1000 REM ***** INCORRECT ANSWER ****
1010 POKE 54276,0 POKE 54277,0 POKE 54278,0 POKE 54272,0 POKE 54273,0
1020 POKE 54277,9:POKE 54278,0:POKE 54276,17
1030 POKE 54272,75:POKE 54273,34
1040 RETURN
2000 REM **** DATA ****
2010 DATA "HYDROGEN"," 1",1,1
2020 DATA "LITHIUM","LI",1,1
2030 DATA "♥ODIUM","/A",1,1
          "TOTASSIUM","",1,1
2040 DATA
2050 DATA "♥ILVER","♠G",1,1
2060 DATA "-OPPER","-U",1,2
2070 DATA "NAGNESIUM", "NG", 2,2
2080 DATA "-ALCIUM","-A",2,2
2090 DATA "SRON", "-E", 2,3
          "(ARIUM","(A",2,2
2100 DATA
2110 DATA "+INC", "+N", 2, 2
2120 DATA "/ICKEL","/I",2,2
2130 DATA "LIN","♦N",2,4
2140 DATA "LEAD", "TB", 2, 4
2150 DATA "NERCURY"," 16",2,2
2160 DATA
          "#LUMINIUM","#L",3,3
2170 DATA "-HLORINE", "-L", 1, 1
2180 DATA "!ROMINE","!R",1,1
2190 DATA "NODINE", "N", 1, 1
```

tters Letters Letters Letters Leters Letters L

Value for

money

Firstly, thanks to G W Hoygard (HC W 61) for the clue to the cheat mode for Revenge of the Mutant Camels It was a great help Can anyone tell me how to get more lives on Manic Miner for the 647

Now, with regard to your stem on pocket money games (HCW 57) I saw these Mastertronic games in W. H. Smith

My children bought three, Munch Mania, Duck Shoot and Space Walk for the Commodore 64. We all tried the games and found them excellent. I have paid a lot more for some games with top names and found them very disappointing and of poor quality.

So, with regard to Neil Johnson's comment "you only get what you pay for". I can only say that I think the three games I have tried were excellent value for money

Mrs J Dugdale, Garston, Liverpool

Commodore:

I'll join in

Since everybody seems to be complaining about the back-up service of Commodore, I thought I might as well join in.

Commodore is a company which knows how to make excellent computers (referring to the VIC and 64) and have some excellent software, especially the International Soccer cartridge. But when it comes to a back-up service and abouty to provide the goods, they are hopeless

I have had two incidents, one of which isn't solved yet. They regard getting the computer and, at this moment in time, trying to get international Soccer.

When the 64 first came out, I couldn't wait so I rang a dealer and he promptly told me he'd had one machine, and had a waiting list of 20, so I put my name on the list anyway I also put my name on four other dealers' lists.

Between September '82 and March '83, I rang Commodore approximately 20 times. I got my computer in March and have enjoyed it since.

The incident about International Soccer is worse because I've waited a year for it, as it was at last year's Commodore show when Commodore said "the game is soon to be released."

I'm top of the list at a dealer and I've been waiting for two months since its resease, and still heard nothing Every week I ring, and they haven't received the game and they test me it's the same situation on the cassette deck front (not that that bothers me, I've got one).

Now, to end on a better note, I think HCW is brilliant, but more 64 reviews wanted and more of David Rees's programs. The Extended BASIC (HCW 45-47) saved me spending £50 on a long awaited cartridge' It's very good Perhaps we could get David Rees to do a decent Donkey kong since money can't buy a decent version for the 64

Finally, Julian Cowtland-Smith (HCW 32), your friend's score of 169,990 on Interceptor's Frogger isn't the highest ever as I reached 208 360 after approximately one hour (didn't time

Terry Gifroy, Penzance, Cornwall

whose is

Good work, HCW, Pm a TI owner but I was constantly bugged by BBC and Spectrum owners who claimed that they had the best home computers in the world. They constantly criticised me for buying a T1-99/4A and said it was an utter waste of £150.

However, after reading Bud Izen's U.S. Scene and M.C. Adams' letter (HCW 58), the BBC and Spectrum owners are not so proud anymore.

it all happened at the beginning of May I was at my friend's house playing Manic Miner on his Spectrum and a friend of mine who owns a BBC was also there.

I began saying how good a game Manic Miner was when my BBC friend pipes up: "You'll never get anything as good on the Texas, It's got no software. Hardly anyone's got a Texas!"

My Spectrum friend also joined in. Then in response I told them that Texas owned a larger part of the home computer market in the United States than Timex Sinclair.

Then using M.C. Adam's information in his letter I told him that the Spectrum in Australia costs \$1,500, When I told him that the Hobbit was marketed for \$40 they'd had enough.

They rushed down to check the exchange rate in the newspaper Working away on their calculators they found that the Spectrum costs around £250 and the BBC about £1,000 in English money

Whose computers are the utter waste of money now and who has the more rare computer?

Sam Singh, Dartford, Kent

Minority are uniucky

I am writing in reply to Sheila Maguire's letter (HCW 53) in defence of the Commodore 64

For the past three years I have been the happy and contented user of the VIC 20. Commodore 64 and PFT micro computers. In all this time, I have not once had any problem or cause for complaint. Also many of my friends own Commodore 64 and VIC 20 computers and agree with my previous comments.

I can only say that Sheila Maguire and others like her (HCW 57) are unlucky, and in the minority

At the moment I own a Commodore 64-based computer system comprising computer, Scikoshu GP-100 VC printer, 1541 disc drive, C2N datasette and a rather large library of games software! I am completely happy and hope to further expand my system.

I also must congratulate you on a most enjoyable and informative magazine with listings that actually work when typed in!

Keep up the good work Alastair Heaton, St Helens, Merseyside

Give it seme thought

After reading many issues of your magazine, I have noticed that BASIC programmers always seem to blindly follow their computer manuals.

For example, in Pacmantype games the object is to ent all the pellets or to collect objects which are littered around the maze etc. To check whether a collision has occured most computers use the PEEK command to determine which character is where, on the screen. The TI-99/4A — which I own — uses the CALL CHAR (Row, Column, ASCII, Variable) command.

However, with a little thought these two machinespecific commands can be done away with for certain types of BASIC programs, thus ensuring a degree of compatibility

One method which I have developed is as follows. The screen is mapped using a two-dimensional array, dimensional to the number of rows and columns available to DIM A (Row, Column Then, using a nested FOR NEXT loop:

10 FOR Row = 1 to 24 20 FOR Column = 1 to 32

30 A (Row, Column) = 1 40 NEXT Column

50 NEXT Row

all values are set to 1. The number 1 then signifies a square on which there is no object, i.e. a space

Then, when the screen is drawn, each stationary object - when plotted — can be given its own code number as follows — I reserved for space, 2 wall for maze, 3 pellet, 4 power pill

It is a sample matter then, to use the ON A (Row Column) GOTO, statement to direct the program to various procedures depending upon which object has been encountered

in this way, machinespecific commands need only be used for checking for collisions between two moving characters, since all stationary obstructions have been catered for.

B. Dhooper, Goldthorn Pk, Wolverhampton

for help

I would like to ask any reader who owns a Commodore 64 if they could help me with the adventure game. The Quest in the instructions it says you have to "locate the maker and his power source"

We have visited all the rooms (we think) and still cannot find the maker or his power source.

Please, if anyone can help write before I throw the disc drive out of the window.

Andrew Wilkins, Strond, Glos

and your

For all those people out there who have got Jet Set Willy, I think it's about time someone put you out of your misery. A few POKES to help you — a la Manic Miner:

Firstly, and most

importantly, the no loss of life POKE:

POKE 35899.0

POKE 37202,0 will keep quite a few of the nasties caught up. These have to be entered at line 35 in the BASIC program

You type in LOAD ""
then as soon as the BEEP
starts press BREAK then
type in 35 POKE
(whatever),0 Then type
RUN and push ENTER and
play the cassette

If anyone knows how to enter the conservatory roof please tell us

Gareth Trevers, Watford

How Ti zivis

I would like to tell readers of a new club for \$1.99.4A owners. Membership is free and the club offers various services. Including a newsletter and bints on better computing for the TI. There is also a tape magazine available. If anyone is interested they should write to the address below.

Joseph Murphy, 41 Winchester Street, Acton, London, W3 8PA

Praise for

Commodore

Reading your letters page, I have noticed many complaints about Commodore. When my computer went faulty I telephoned Commodore and they told me to send my computer to them. After a week my computer came back to me and it works perfectly

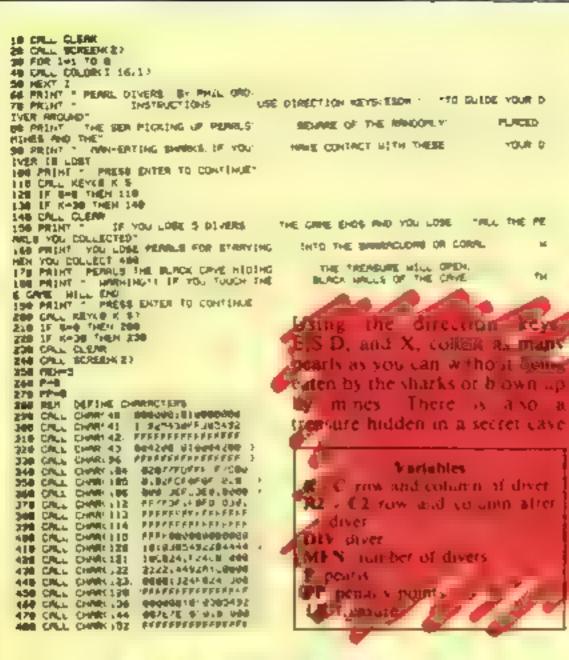
I have owned a VIC-20 computer for 18 months and 1 have found Commodore both very helpful and reliable

I cannot praise them enough for their after-sales service.

Darren Allen, Warley, West Midlands

Send your letters to Letters, Home Computing Weekly, No.1 Golden Square, London WIR SAS. Don't forget to name your computor — the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting a queries page, so send your technical guestions to Queries of the obove address.

TI-99/4A PROGRAM



inch a coverled during the

How it works

10-220 instructions

230-270 set in the value

230-480 define characters

590-1200 set up screen graphical

1210-1450 misse diver

1400-1500 diver at edge of

screen or obstinface if waren

1510-2050 pint tin of diver and

consequences

2060-2830 end contines and source

748 THE 779 THEN BOD TO 18 THEN BOD

Will you risk sharks and mines for pearls and treasure?

TI-99/4A PROGRAM

```
1838 MERT |
1848 DRIM 12 18 5 10 24 1 15 7 1 21 0 9 29 1 22 18
1858 DRIM 52 16 1 10 22 1 13 8 12 14 9 20 1 22 12
1878 DRIM 7 7 16 1 10 22 1 13 8 12 1 4 9 20 1 22 13
1888 URLL MERMA 4 25 112 4
1188 URLL MERMA 9 26 11 4
1188 URLL MERMA 9 26 11 4
1188 URLL MERMA 9 26 15
1190 URLL MERMA 9 26 16
1100 URLL MERMA 9 26 16
1100 URLL MERMA 9 4 16
1148 URLL MER 8 4 17
1158 URL MERMA 9 4 17
1158 URL
1158 URL
1158 URL
1258 DRIM MOVE DIMER
```

and the second of the second o

```
1228 CALL KEYCE, K/B?
1238 RZ=8
1248 CZ=C
1258 IF B=8 7400 1448
1248 CPLL BOLAGE 18 44733 B)
1278 IF KY/69 THEN 1218
        1588 Am-1
       1290 HHS
1300 D. (4120
        210 IF K-300 THEN 1350
       1320 4=1
       1338 KAR
     1368 D. + 22
1356 IF 45-83 THEN 1398
       1260 Yes
       AND BUT A
      1380 G VH125
1390 F KC168 THEN 1449
      3488 red
       1416 241
   1428 C = 182
1436 REM - - GVE DIVER
1446 BAR-1
1450 C-C-F
  170 .F PSNA40 1869 1646
1500 IF PIN-26 1869 .0 8
    178 / PSHENZE HE 1284
1688 / PSHENZE HE 2348
1618 IF PSHENGE PER 23 P
      628 OF PRINCES THEN 2758
    440 PHP+1
    1658 F PHASE THEN 2140 ELSE UZO
       660 H-H-
    476 Suits 1736
4440 Relic 2
   1698 GO 3 1738
 1499 GO 3 1739
1718 CHCH3
1718 HO 3 1738
1728 HH 3
1728 HH 3
1748 K 3HB THEN 3738
  $ 50 WOTO 1220
THE PROPERTY AND THE PR
   INTO HEAT D
 1848 CPLL HOMBICS C-1 184
1828 CPLL HOMBISS C 1823
1856 CPLL HOMBISS 25 423
1878 IS MEN-8 THEN 2868
  1000 IF PENY HER SYAR BUSINESSEE
   LEFE COLL IN HOSE I 24 42
   1900 It 15140 HE 2008
  95 040 8241
82 040 8761
    SME CALL CHAR OF GEOTIFICEE F .40
    1958 MLL HOMME H L 82
1968 CRUL BOUND 118 S
1978 FOR D41 TO 198
    1906 HEAT D
```

1998 CALL HOLMAN T. 184 2000 IF PENNS 1MEN 2000 2018 CALL HOLMAN 3 26 46 2020 IF TENN 1 HE 2018 6634 2058

WILL HUMBER 3 25 42

2848 5019 . 38 2858 A.10 ...28 2868 384. 5.588 2878 508 -5 10 8

ZOSO HEX? +

2000 THE GOLDE & 35 41

```
STOR PRINT
                                                                                                                                                             YOU RAN OUT OF DIVERS AND LOST MLL YOUR PERRLSY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PLRY
                                    B DRUG KEY B K T
            2128 IF BHE THEN 2. 8
2138 IF KHB2 - HA . HEN 238 ELSE 2068
2 48 CPL. HOWEN 2.3 48 4
   2 48 CML HOWN 2 2 2 48 4
2 58 JML HOWN 3 20 3
2 58 JML HOWN 10 3 20 3
2 78 56L HOWN 8 4 20 2
2 80 JML HOWN 8 4 20 2
2 80 JML HOWN 8 4 20 2
2 80 JML HOWN 7 3 72 3
220 JML HOWN 7 2 132 17
2258 JML HOWN 9 2 132 17
2258 JML HOWN 1 4 172 3
2278 JML HOWN 1 4 172 3
2278 JML HOWN 1 4 172 3
2278 JML HOWN 1 2 132 17
2288 CML HOWN 1 6 172 4
2288 CML HOWN 1 8 2 12 3
            2230 CALL MCHAR 13 2 152 1
2300 UDTO 226
23 6 PP-PP-100
          2328 CPL NC PD138 4869 3
2348 CPC 226
2348 PP+PP+ C06
   2348 PP+PP+ COE
2358 CALL SG AD-18 2948 J
2348 CCTO 228
2378 TH- D2C28
2398 FDR E4-64 FD 180 T EF 118
2488 FDR E4-64 FD 180 T EF 150
2498 FDR E4-65 FDR E 150
2498 FDR E4-65 FDR E4-65
2458 FDR E
 2440 MENT 1
2450 MEN CLEVE
2440 MEN CLEVE
2440 MEN COLOR I 15 2
2450 MENT I
2500 MENT I
25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FOR LOST PERMIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ANT EACH
                                                                   F A-89 THEN 230 LLSE 2008
             2130 TEHETER
   2000 7 TENNE THEN 2000
2000 DRILL HTHMR 3 25 42
2010 F TENN THEN 2000 CUME 2700
2000 JULY HOMBER 3 25 42
2000 JULY HOMBER
      $728 CALL BOUND -190
2736 PLL CN 8 4
2756 PLL CN 8 4
2756 PLL COURT 7 1
2 64 MEAT 7
2778 FDH 7-1 TO 14
2766 PLL COURT 16 2
2 78 NE T 1
      2000 PL CLERN
20 B PE Nº
RK 5 Ju HRS
                                                                                                                                                                                       The distribution of the sea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MUNIT PART TOU FORFELT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mry PE
        2929 PR.N.
                                                                                                                                                                                                                                         HAP I U.D. I BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THE HIGHLI T. OR N.
      2030 CALL FL N F S
2040 IF $40 HEN 2030
2050 CF RMS - 1 N 21 THEN 230 GLSE 2040
      THE PART
```

Machine Code for Beginners Spectrum CT 95

Dream, PO Box 64, Basingstoke RG21 ZLB

Another excellent package from Dream. Most programs which say 'they are for ''absolute beginners'' to machine code turn out to be anything but! You flounder ground in hexadecimal and registers, and end up lost.

This is different. It's a simulation of a simple microprocessor with just four registers and a limited instruction set. The whole of the CPU is displayed on the screen. The accompanying manual takes you gently through each instruction together with the processes which inke place within your micro. If

you don't like hex, you can do it in decimal. After considering the action of the instruction, you can enter it in a simple program and watch the CPU at work. The graphics are very elever, and a real aid to understanding

By following the manual you can build up the necessary information to understand the real thing, like a 280, later. The manual itself is so well written it's aimost worth the package price. Even though this is a simulation, the minemonics are very like those of the 280. First class for the student or enthusi-D.M.

instructions	100%
case of use	100%
display	100%
value for money	100%

BBC BASIC & BBC Advanced BASIC Courses BBC 32K £10.50 RDCh

Honeyfold, Bath Place, Barnet, COMPANIES.

Two courses, part of the Dr Watson series, comprise a book and a tape. They have the same author and are meant to be seen as stages in a single course, so much so that the books have common indexes and appendices. This is unfortunate for the purchaser of both, as they are paying for more than 40 duplicated pages.

The tapes contain copies of the programs used to emphasise the text, in their final working form

and this might give you an idea of the type of books these are, i.e. made up of highly detailed program notes leading up to the finished product.

Having said that they are not really BBC specialist books, in that early part of the books could have been for any machine and doesn't really use the BBC's special features, I am particularly surprised by the way GOTO is introduced very early in the text and PROCedure very late. These are not the best books I have seen for the learner, I'm afraid.

instructions	65%
ease of use	70%
graphics	N/A
value for money	50%



Logo Graphics Interpreter Spectrum 48K £9.95

Kuma, Unit 12, Horseshoe Park, Horseshoe Rd, Pangbourne, Berks

A nort of primitive screendesigner plus poor man's Forth. and I'm not sure at which market it is armed

The on screen turtle (round cursor and direction pointer) is moved by entering commands. draw, reverse, jump, left, right, round, etc. followed by pixel length or angle, plus 'erase' on straight lines. Features are circles and ink change, in-built calculator and screen dump to

You can define 20 complex commands, incorporating original commands, i.e. to draw a square (repeat 4, draw 60, right 90, continue, end) you can simply command Square, User commands mixed together with originals can form more complex user commands. Further communds allow limitation and changes of size. No SAVE SCREEN facility but you can BREAK into the BASIC written program and SAVE normally.

However, drawn lines have pixel gaps, there's no way to erase circles if you make a mistake, the jumping turtle leaves a space, and errortrapping is not perfect. I was advised 'out of screen' when trying to draw something too big but, instead of returning to 'command' sequence, I was requested to enter 'length'

A bit pricey for limited usefulness. D.C.

90% instructions case of use 65% display 75% value for money 50%

Get inside your micro

New utilities for the BBC and Spectrum are put through their paces by our experts

Supercode Spectrum £9.95

machine code routines for use in your own programs. Initially they are linked, indexed and demonstrated by a BASIC program, which also gives details of the parameters which must be passed to them to tailor them to relocating the code carefully your specifications.

The variety is really stunning The routines range from toolkits instructions like compress, REMkill, renum- ease of use ber etc. to superior laser zaps, display and a sound recording routine, value for money Also included are at least 20 different ways of scrolling and colours, together with about a dozen different ways of

protecting your program... and ON ERROR GOTO., and ON BREAK GOTO ... if I describe them all I'll run out of space!

This program provides the sort CP, 2 Glebe Rd, Uxbridge, of graphse effects you just can't Middx LB8 2RD get from BASIC. If you are prepared to work hard with it, This program contains 100 Supercode will help you achieve professional standards with no knowledge of muchine code

Just one word of warning. The program did crash when used with Microdrives connected, so follow the instructions for D.M.

100% 100% 100% 90%



HHE/Electron Assembly Longuage Courses £12.50 eech

Honeyfold, Bath Place, Barnet, London

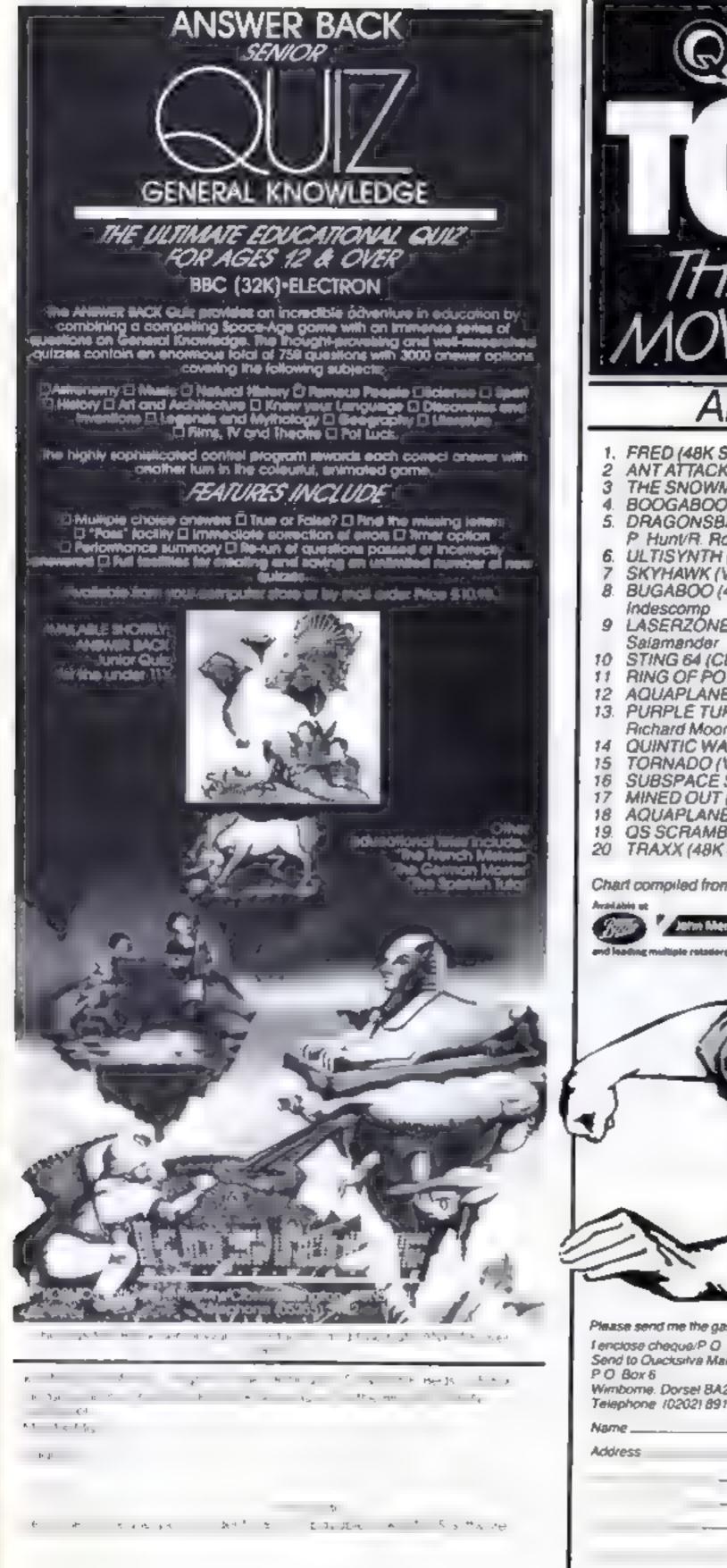
Both part of the Dr Watson series, these texts deal with programming the 6502 microprocessor. As both machines have identical assemblers, as part of the BASIC, the books are very similar with only the minimum of changes.

in fact I am prepared to believe that they are also very similar to the books for the PET, VIC and CBM 64 and it is in this similarity that my main criticism

is found Acom machines have a very well documented operating system and you are advised, indeed forced if you want your program to run on all configurations, to use the facilities provided within the OS. These books have only one reference to the OS and are therefore almost useless in this respect. Further to this error they also insist on POKEing values to the screen in the early stages, and start off using decimal rather than hexadecimal values. This may seem a good idea to some but those battling with machine code are going to have to get used to hex so why not start that way? The tape contains useful but not remarkable utility programs. D.C.

35% instructions 50% ease of use N/A graphics value for money 20%





QUICKSINA THE FASTEST MOVING GAMES!

APRIL/MAY 1984





HCW67

NATIONWIDE SHOPS & DEALERS

BEDFORDSHIRE

MILTWARE CENTRE

Computers, Software and accessories.

The Educational Software Specialists

Large S.A.E. for lists.

52A Bromham Road, Bedford.

Tel: Bedford 44733

BERKSHIRE

- NOW OPEN -

MU Games & Computers Ltd

COMPUTERS

SOFTWARE & ACCESSORIES

SLOUGHL SLOUGH 21694

245 HIGH 5T

SLOUGH 21694
A member of the SPECTRUM group

LANCASHIRE *

Aborthe was strong of the agent and Aborthe was strong of or wale book aborts or or in he also

89 Euston Road, Morecambe, Lanes Tel (0524-411435) OPEN 7 DAYS

03310)

BBC + COMMODORE 64 SPECTRUM + DRAGON 32

Estensive range of software / hardware /books always in stock. ESTUARY SOFTWARE PRODUCTS 261 Victoria Avenue Southend. Essex, Tel: 0702 43568

SOMERSET:

RAINIOW

COMPUTER CENTRE

Massive range of software in stock for BBC, COM 64, VIC-20, SPECTRUM, DRAGON, FEECTRON, ZXB)
Huge stocks of peripherals (Joysticks, Interfaces, Cassette units, Padales, Introduction series, Reference Condes etc.)
Open Monday-Sunday 9am 8pm
Any visa accepted

For the largest selection of hardware and software in the area contact VICTORIA ROAD YEOVIL, SOMERSET TEL 0935 26678



Tel: 0836 21724

COMBRUSTSHIRE

NEMESIS COMPUTING SHOP NOW OPEN: 27 HIGH STREET, HUNTINGDON, CAMBS.

The established business computer consultants have now branched into the HOME COMPUTER market. To discuss your needs at whalever level call today — 0480 411984. We pride ourselves on the individual help and attention which each of our customers receive.



MANY GAMES AT DISCOUNT PRICES All Credit Cards accepted

STAFFS:

CAM: 9

24 The Parallil
Silverdale, Newcastle

Tel: 0782 636911

Official dealers for Commodore, Sinclair & Acom BBC service and information centre

Huge range of hardware and will ware have made as well a will set the dense ment.

New Memoter's Computers now in Mirch.

SURREY

COMPLITASOLVE LTD.

B Central Parade, St. Marks Half, Surbition, Surrey & 16-4P3 Tel. 01-390-5135. Open 9-30-18-30 Mon-Sat.

Over 900 different software of the in stock. We are present of demonstrate any program before you buy

48K SPECTRUM C129.95

LONDON

G. C. B.

Software Centre

A complete range of software for all popular computers Call now at

22 MAXTED ROAD PECKHAM LONDON SETS of TEL. 639 3424

COMPUTER VID

The leading computer software shop Mail order or personal callers welcome GAMES FOR SPECTRUM CBM 64 VIC 20 etc FROM E1 99

Many special offers on all software and hardware S.A.E. for catalogue & details to

> 278A WIGHTMAN ROAD INCOMPRESSION TEL 340-4074

CLASSIFIED - RING 01-437 0699

CLASSIFIED ADVERTISEMENT - ORDER FORM

1	2	3
4	5	6
7	. 8	9
10	11	12
13	14	15

Advertise nationally for only 35p per word (minimum charge 15 words).

Simply print your message in the coupon and send with your cheque or postal order made payable to Argus Specialist Publications Ltd to:

CLASSIFIED DEPT. HOME COMPUTING WEEKLY.

1 Golden Square, London WIR JAB

fel. 01-437-0699

Name

Address

Ter No (Day





PREFERRED CLASSIFICATION

Please place my advert in Home Computing Weekly for Please indicate number of insertions required.

weeks.

HOME COMPUTING WEEKLY CLASSIFIED

Lineage: 35p per word





Semi display: £7.10 per single column centimetre Ring for information on series bookings discounts.

All advertisements in this section must be prepaid. Advertisements are accepted subject to the terms and conditions printed on the advertisement rate card (available on request),



01-437 0699 EXT 341.

Send your requirements to: Debra Stupple ASP LTD. 1 Golden Square, London W1R 3AB

ACCESSORIES

COMPUTER **CABINETS**

A range of cabinets and housing units especially designed for your home computer system. Keep it dust free, tidy and secure.

Send S.A.E. for colour brochure

MARCOL CABINETS

PO BOX 69, SOUTHAMPTON Tel: 0703 731168

COURSES

HOLIDAY COURSES. **FOR CHILDREN** Now Booking! £46 for 5 mornings.

Adult Courses as usual RING: COMPUTER WORKSHOP on 01-318 5488 4 Lee High Road (Dept HCW), Lewisham, London SE13 5LQ

FOR HIRE

To hire a computer from Spectrum 48K upwards, please phone or write 10 Business & Computer Services, 294a, Caledonian Rd., London N1 1BA Tel. 01 607 0157

ADVERTISE IN OUR **NATIONWIDE GUIDE AND SEE** YOUR BUSINESS GROW.

COMMODORE 64 Software library

2 weeks hire £1. Annual membership £5. Stamp for list. Les Wilson, (C) 100 Blenheim Walk, Corby, Northants.

Oric Software Library. Two weeks hire £1. Annual Membership £5. Stamp for list. Les Wilson, 100 Blenheim Walk, Corby, Northants.

HARDWARE

ZX SPECTRUM: INTERFACE CABLE

c/w 3 connectors and 2 PCB's £16 inclusive.

c/w 2 connectors and 1 PCB £11 inclusive.

Cash with order. E.C.P.S.

7 Harebill Crescent, Wingerworth, Chesterfield, Derbyshire. Tel: 9246 74003.

LIBRARIES

BBC/Dragon software library -Membership £5.00. - Tapes £1 (+23p postage). Stamp for details, E. Tucker, (H) 8 Springwood Estate Grimston Road, Sough Wootton, King's Lynn, Norfolk.

COMMODORE 64 SPECTRUM

All top titles, £5.00 life membership. 75p full 7 day hire + 23p p&p SAE details INVICTA SOFTWARE Dept HCW 42 Wardon Road Rochester Kent Cheques PO to invicta Software

COMMODORE 64. GAMES LIBRARY

Over 230 titles, all originals. Hire of first two games absolutely free. Life membership only £6. Join now on money back approval. Send for details to:

Commodore 64 Games Library c/o Yorkshire Software Library, 13 Park Top, Pudsey, West Yorks,

Cheques PO's to "Yorkshire Software Library"

Computer Vid. Unique rent a tape service from £1 a week. If you like the game we take a rental fee off the cost of the game. £5 life membership. Available for popular computers. Write to: 278A Wightman Road, Hornsey N8. Tel:

VIC-20 & **VECTREX LIBRARY** now available

Details to **DUKERIES SOFTWARE** 39 HIGH STREET. WARSOP NR. MANSFIELD. NOTTS

REPAIRS

Commodore repairs. By Commodore approved engineers. Repair prices - VIC-20 modulators £6.50, VIC-20 from £14.50, CBM 64 from £18.00, C2N from £7.00, printers, disk, etc. For more details write or tel. G.C. Bunce & Son. 36 Burlington Road, Burnham, Bucks SLI 7BO. Tel: (06286) 61696.

ZX81 - Spectrum. We can now offer out-of-guarantee repairs by our Computer Dept. Our engineers have had over three years experience. servicing Sinclair Computer producis. Price including p&p. ZX81 --£11.50; 16K Ram - £9.95; Spectrum - £18.75. Send with cheque or PO. T.V. Service of Cambridge, French's Road, Cambridge CB4 3NP. Phone (0223) 311371.

FOR SALE

TI-99/4A SOFTWARE HALF PRICE

PARSEC/MUNCHMAN £15.95 SOCCER/TOMBSTONE CITY/ CAR WARS/THE ATTACK £10.95 PERSONAL REC. KEEPING SPEECH SYN. £29.99 JOYSTICKS £9.99 ACCEPTED ACCESS/VISA

KETTS OF WATFORD 092337013___

COMPUTARISTS.

Your computer in colour on a large (55mm) BADGE. (Popular Home Micros). Send £1.00 your name, address and which micro

65 GUILDFORD RD, FRATTON, PORTSMOUTH PO1 5HU

VIC-20 programs. Twenty including six expanded games £5 inclusive Write A. Bellamy, 201 Model Village, Creswell, Worksop, Notts.

READ OUR DEALER DIRECTORY AND FIND OUT THE LOCATION OF YOUR NEAREST COMPUTER SPECIALIST.

SOFTWARE APPLICATIONS

BACK-UP TAPE COPIERS

beth-up copies of your software

COMMODORE 64 £5.05 BLECTRON £5.05 £5.95 ADAM

TAPE TO DISK TRANSFER UTILITIES

£5.95 SPECTRUM £5.95

Speed loading and transfer your games, etc to disk COMMODORE 64 ALL COMPLETE WITH PULL INSTRUCTIONS

Bridge St. Evesham, Worcestershire Tel: 0386 49641

COPYMATE TWO CBM 64 BACK-UP COPIER

Outstanding features include an option to SAVE TO TAPE OR DISK

Easy to use, Send £5.75 to:-

HORIZON SOFTWARE

15, Banburg Close, Corby Northants NN18 9PA

Speedyload 64 loads Commodore 64 software twice as fast. Send £2.99 to G. Connell "Rosebank" Garsdon, Malmesbury SN16 9NJ

PROBLEMS WITH YOUR MACHINE? SCAN OUR SERVICE/REPAIR SECTIONS. #

The contents of this publication, including all articles, plans, drawings and programs and all copyright and all other intellectual property rights therein belong to Argus Specialist Publications Ltd. All rights conferred by the Law of Copyright and other intellectual property rights and by virtue of international copyright conventions are specifically reserved to Argus Specialist Publications Ltd and any reproduction requires the prior written consent of the company. © 1984 Argus Specialist Publications Ltd

SSN0264-4991

SPECTRUM KOPYKAT BACK-UP TAPE

Simply the best for LOADing and SAVEing your own programs. Any of your own ZX Spectrum programs can be backed-up onto a fresh tape. 100 per cent machine code. SPECTRUM KOPYKAT uses no program area so your full size programs can be copied.

Despatched by first class return of post.

Send cheque/PO for £4.95 to:

MEDSOFT PO Box 84, Basingstoke Hants RG25 2LW

COMMODORE 64 AND VIC-20 BACK-UP COPIERS

For your BASIC, machine code, and multi-part programs of any size.

Both are written in machine code and audio and visual prompts are used for easy operation.

Full instructions are contained in the programs.

VIC IMITATOR 64

16

Please state which is required and make cheques/PO's payable to IAN WAITE

Send orders to: IAN WAITE, DEPT HCW II HAZLEBARROW ROAD SHEFFIELD S8 8AU

BACK-UP TAPE COPIER SPECTRUM/DRAGON

Makes BACK-UP COPIES of your SPECTRUM programs easily with MANY unique features.

 M/Drive backs-up Basic/mc/ arrays on the microdrive STOPS programs to help the run.

 EOADS in all program parts CON-TINUOUSLY — even without pressing a key. Others require many loadings — MASSIVELY saves you time and trouble and uses no program area!

• Full instructions, very user friendly, BREAK at any time then carry on LOAD, Ideal for security back-up copies.

Spectrum copies only £4.49 or £5.50 with M/DRIVE. (Update service for old customers £1.50 plus old tape and S.A.E.) Dragon Copies £6.99.
FULL MONEY BACK GUARANTEE.

LERM (DHC), 10 Brunswick Gardens, Corby, Northants.

COMMODORE 64_ COPYCAT TAPE

Makes security back-up copies of your own programs, m/c or Basic, Screen prompts with full instructions. £4.

Cheques/PO's 10: S. Galli, Dept HCW, 131 Norton Hill Drive,

Coventry CV2 3BA

JET SET WILLY NEWS!-

Re-design all the levels of these games by moving the girders etc around the screen with our designers. Jet Set Willy £4, Manic Miner £3,50, Chuckie Egg £3,50.

Redesign all the graphics for Jet Set Willy £3. Manic Miner £3. Back-up tape copier £3 (16 or 48K). Send S.A.E. for details or cheque/PO to: P&M Software, 16 Bridge Road, Parkgate, Nr Southampton SO3 7AE

BBC "IMAGE"

The ultimate tape back-up copier

This amazing program must be the best of its kind. Makes security back-up copies of your software and can lock your programs. Send S.A.E. for list of ourstanding features 100% m/c. An amazing £3,80

PETER DONN, 33 LITTLE GAYNES

LANE, UPMINSTER, ESSEX RM14 2JR

Commodore convert S.S. discs into D.S. discs/ed. + ass/scr. util./file/home management £3.99 each + much more. S.A.E. for list. Firkin Software. 22 Toll Gardens. Brack-

nell, Berks RG12 3EX

HCW —
COMPATIBLE
WITH ALL
POPULAR HOME
COMPUTERS.

SOFTWARE GAMES

Computer Software and Accessories, send 2 x 16p stamps for free lists stating which computer to: Electronic Facilities, 3 High Street, Sandy, Beds. SG19 1AG

THIS WEEKS SOFTWARE BARGAINS,

BBC ATLANTIS (IJK)	5.25
DRAGON SCANNER 13 (Hamby)	5.75
ORIC DALLAS (CCS)	5.00
VIC-20 SPACE TRAVEL (Mikrogen)	4.50
Prices include	p&p
MAIL ORDER SOFTWA	
9 KNOWLE LANE, WY	KE,
	9BE

* TI-99/4A SOFTWARE * '

keeps up to 150 items by ritle/ language/number, with routines to autosort by title, search, delete, print hard copy. TI BASIC £3.50. Send S.A.E. for list, B. JACKSON, 21 ROWAN WAY, NEW BALDERTON, NEWARK, NOTTS NG24 3AU

68.00

£8.00

BEWARE! LORDS OF MIDNIGHT (Beyond) Spectrum

(Ultimate) Spectrum
SHEEP IN SPACE £6.25
(Llamasoft) C64
BATH TIME £6.25
(PSS) C64
CHUCKIE EGG £6.90
(A & F) C64

CHUCKIE EGG £6.90
(A & F) C64

VALHALLA 64 £11.25
(Legend)

FALL OF ROME £5.95

(ASP)

SABRE WULF

Cheques/P.O.'s to:

22 WEST STREET
WESTON-SUPER-MARE
AVON BS23 1JU
TEL. 0934 26339

(for your computer needs between 10-6pm)

PLEASE NOTE

DUPLICATING
COPYRIGHTED
SOFTWARE FOR
COMMERCIAL
PURPOSES
IS ILLEGAL

SPECTRUM GAMES

We only sell the best. Order Today, Deliver Tomorrow.
Postage and Packing FREE.

LORDS OF MIDNIGHT £8.75 MOON ALERT £4.95
SABRE WULF £8.75 AD ASTRA £5.00
WORLD CUP £6.00 FIGHTER PILOT £6.50
H.U.R.G. £13.95 CHEQUERED FLAG £5.95

Write or phone for our free brochure.

Orders with cheque/P.O. to:

CYGNUS TWO COMPUTER GAMES, 62 WOODLAND ROAD, CHINGFORD, LONDON E4 7EU. TEL: 01-529 1891

SHARP

SAE for MZ-700 or MZ-80A/K software catalogue, or SAE & £2 for catalogue and sample games cassette DCS, 38 South Parade, Bramball, Stockport, SK7 3BJ

SPECTRUM GAMES.

BEAKY	£5,50
SABRE WULF	£8.50
LORDS OF MIDNIGHT	£8.50
KOSMIC KANGA	£4.99
COSMIC CRUISER	£4.50
MUGSY	£5.99
PSYTRON	6.99
AT LEAST £1 off all SPECTRUM games. POST FREE IN UK. Send for fix to	
G.I. RECORDS, Cockburn St.	
Edinburgh Tel: 031-225 9565 ACCESS/VISA ORDERS WELCOME	

WANTED

Software company with established product line requires original games and education programs. Telephone 0386 792008 evenings or weekends for details

NEW RELEASES

T1-99/4A. This magazine has a quarter-page advert with the best unexpanded programs from * * *
PiKa Dee Software.

UTILITIES

TI-99/4A "UNIFILE" (Cassette)

Useful filing Program for home or small business £2.95 + 50p p&p. Screen Plotting Sheets 3 types. SAE for details A.C. Software, P.O. Box 3 Burntwood Walsall WS7 9EE

MAIL ORDER PROTECTION SCHEME

If you order goods from Mail Order Advertisers in this magazine and pay by post in advance of delivery, this publication will consider you for compensation if the advertiser should become insolvent or bankrupt, provided:

 You have not received the goods or had your money returned; and

 You write to the publisher of this publication explaining the position not earlier than 28 days from the day you sent your order and not later than 2 months from that day.

Please do not wait until the last moment to inform us. When you write, we will tell you how to make your claim and what evidence of payment is required.

We guarantee to meet claims from readers made in accordance with the above procedure as soon as possible after the advertiser has been declared bankrupt or insolvent to a limit of £1,800 per annum for any one advertiser, so affected, and up to £5,400 p.a. in respect of all insolvent advertisers. Claims may be paid for higher amounts, or when the above procedures have not been complied with, at the discretion of this publication, but we do not guarantee to do so in view of the need to set some limit to this commitment and to learn quickly of reader's difficulties.

This guarantee covers only advance payment sent in direct response to an advertisement in this magazine (not, for example, payments made in response to catalogues, etc., received as a result of answering such advertisements):

CLASSIFIED ADVERTISEMENTS ARE EXCLUDED.



